

# VUSAFETAC/DS--91/266







for

**WILLIAMS AFB, ARIZONA** 

Prepared by

OL-A, USAFETAC ASHEVILLE, NORTH CAROLINA 28801-2723

**DECEMBER 1991** 

92-20920

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#### REPORT DOCUMENTATION PAGE

- 2. DECEMBER 1991
- 3. REPORT TYPE AND DATES COVERED: DATA SUMMARY, MARCH 1942 TO MARCH 1991
- 4. TITLE AND SUBTITLE: SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) FOR WILLIAMS AFB, ARIZONA
- 7. PERFORMING ORGANIZATION NAME AND ADDRESS: OPERATING LOCATION A, USAFETAC, FEDERAL BUILDING, ASHEVILLE, NC 28801-2723
- 8. PERFORMING ORGANIZATION REPORT NUMBER: USAFETAC/DS-91/266
- 9. SPORSORING/MONITORING AGENCY NAME AND ADDRESS: USAF ENVIORNMENTAL TECHNICAL APPLICATIONS CENTER
- 11. SUPPLEMENTARY NOTES: EFFECTIVE JULY 1 1988, THIS PRODUCT REPLACED TWO USAFETAC DOCUMENTS FORMERLY KNOWN AS THE REVISED UNIFORM SUMMARY OF SURFACE OBSERVATIONS (RUSSWO) AND THE LIMITED SURFACE OBSERVATIONS CLIMATIC SUMMARY (LISOCS). EXISTING RUSSWOS AND LISOCS WILL CONTINUE IN USE, BUT WILL EVENTUALLY BE
- 12A. DISTRIBUTION/AVAILABILITY STATEMENT: APPROVED FOR PUBLIC RELEASE, DISTRIBUTION IS UNLIMITED.
- 13. ABSTRACT: SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) PROVIDE STATISTICAL CLIMATIC SUMMARIES OF SURFACE WEATHER OBSERVATIONS TAKEN AND RECORDED AT SPECIFIED USAF, CIVILIAN AND FOREIGN OBSERVING STATIONS. HOURLY OBSERVATIONS ARE SUMMARIZED FROM A 10-YEAR PERIOD OF RECORD (POR). "SUMMARY OF DAY" (SOD) INFORMATION IS SUMMARIZED FROM ALL AVAILABLE DATA IN THE OL-A, USAFETAC CLIMATIC DATABASE.
- 14. SUBJECT TERMS: CLIMATOLOGY, METEOROLOGICAL DATA, ATMOSPHERIC PHENOMENA, WEATHER, SOCS, WILLIAMS AFB, ARIZONA, CEILING, CLOUD COVER, SNOW DEPTH, HUMIDITY, PRESSURE, PRECIPITATION, SNOW TEMPERATURE, VISIBILITY, WIND.
- 15. NUMBER OF PAGES: 375
- 17. SECURITY CLASSIFICATION OF REPORT: UNCLASSIFIED
- 18. SECURITY CLASSIFICATION OF THIS PAGE: UNCLASSIFIED
- 19. SECURITY CLASSIFICATION OF ABSTRACT: UNCLASSIFIED
- 20. LIMITATION OF ABSTRACT: UL

DTIC STANDARD FORM 298

#### PREFACE

EFFECTIVE 1 JULY 1988, THE SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS)
REPLACED TWO OTHER USAFETAC PRODUCTS OF LONG STANDING: THE RUSSWO (REVISED
UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS) AND LISOCS (LIMITED SURFACE
OBSERVATION CLIMATIC SUMMARY). RUSSWOS AND LISOCS NOW IN EXISTENCE WILL CONTINUE TO BE USED UNTIL THEY ARE EVENTUALLY REPLACED BY SOCS.

THIS PRODUCT HAS BEEN ISSUED IN OTHER FORMS UNDER SEVERAL OTHER NAMES. IT WAS INTRODUCED IN THE EARLY 1940'S AS THE "SPCSUM," OR "SURFACE SUMMARY." THE ORIGINAL "USSWO," OR "UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS," DEBUTED IN 1946. THE USSWO GRADUALLY EVOLVED INTO THE "RUSSWO" AND THE "LISCCS." IT FIRALLY BECAME THE NEW "SURFACE OBSERVATION CLIMATIC SUMMARIES" OR "SOCS" IN JULY 1988.

THE SOCS (LIKE ITS PREDECESSORS) IS PREPARED BY USAFETAC'S OPERATING LOCATION A AT ASHEVILLE, NC 28801-2723. HERE, CLIMATOLOGISTS USE STATE-OF-THE-ART COMPUTER TECHNOLOGY TO SUMMARIZE WEATHER OBSERVATIONS COLLECTED FROM SELECTED MILITARY, CIVILIAN, AND FOREIGN REPORTING STATIONS. SUMMARIES ARE PREPARED FROM DATA THAT HAS BEEN COLLECTED, QUALITY-CONTROLLED, AND STORED IN OL-A'S WORLDWIDE SURFACE WEATHER OBSERVATION DATABASE.

ALTHOUGH PREVIOUS VERSIONS OF THIS PRODUCT ONLY OFFERED SIX PARTS, SOCS PROVIDES EIGHT (A-H). THE ADDITIONS ARE THE CROSSWIND AND HEATING-COOLING DEGREE DAY SUMMARIES. PRECEDING EACH PART IS A BRIEF DISCUSSION OF THAT PARTICULAR PART, A DESCRIPTION OF THE DATA, AND AN EXPLANATION OF HOW THE DATA IS PRESENTED.

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\*\*\* NOTE: THE AWS CLIMATIC BRIEF IS ATTACHED AT THE END OF THE SOCS \*\*\*

### INTRODUCTION

### STATION PERIOD OF RECORD.

HOURLY DATA: APR 81 - MAR 91 (AIRWAYS).

SUMMARY OF DAY DATA: MAR 42 - DEC 60, MAY 63 - SEP 65, FEB 75 - AUG 77 (FULL TIME).

SUMMARY OF DAY DATA: JAN 61 - APR 63, OCT 65 - JAN 75, SEP 77 - MAR 91 (PART TIME).

HOURS SUMMARIZED: 0400 LST THROUGH 2100 LST.

DATA SOURCES. THESE SUMMARIES ARE COMPILED FROM "HOURLY OBSERVATIONS" AND/ OR SUMMARY OF DAY DATA," DEPENDING ON THE PHENOMENA OR OCCURRENCE BEING SUMMARIZED. THE TWO SOURCES ARE DEFINED IN "TERMS EXPLAINED."

#### TERMS EXPLAINED:

BIVARIATE DISTRIBUTION: A BIVARIATE DISTRIBUTION GIVES THE JOINT DISTRIBUTIONS OF TWO RELATED VARIABLES. AN EXAMPLE IS THE BIVARIATE DISTRIBUTION OF CEILING AND VISIBILITIES IN PART D. EACH ROW AND EACH COLUMN OF A BIVARIATE DISTRIBUTION IS A FREQUENCY DISTRIBUTION. JOINT FREQUENCIES ARE FOUND AT THE ROW-COLUMN INTERSECTIONS.

HOURLY OBSERVATIONS: ALL RECORD OR RECORD-SPECIAL OBSERVATIONS ON AWS FORMS 10/10A (OR EQUIVALENT) AT SCHEDULED HOURLY INTERVALS.

SUMMARY OF DAY (SOD) DATA: DATA COMPILED FROM ALL AVAILABLE OBSERVATIONAL SOURCES, INCLUDING HOURLY OBSERVATIONS, SPECIAL OBSERVATIONS, REMARKS, AND ACTUAL "SUMMARY OF DAY" DATA RECORDED IN COLUMNS 44-73 OF AWS FORMS 10/10A (OR EQUIVALENT) FOR ANY GIVEN DAY. NOTE: EXTREMES OCCURRING DURING NON-OPERATIONAL HOURS AND/OR DAYS ARE NOT REPLECTED IN THESE SUMMARIES.

MEAN: THE SUM OF ALL THE VALUES DIVIDED BY THE NUMBER OF VALUES.

MEASURABLE AMOUNT: ANY PRECIPITATION OR SHOWFALL AMOUNT GREATER THAN A

MEDIAN: THE MIDDLE VALUE WHEN THE VALUES ARE IN ASCENDING ORDER. IF THE NUMBER OF VALUES IS EVEN, THE MEDIAN IS HALFWAY BETWEEN THE TWO MIDDLE VALUES.

PERCENT OCCURRENCE FREQUENCY (POF): IN STATISTICS, FREQUENCY IS THE NUM-BER OF TIMES A GIVEN COUNT OR EVENT OCCURS. IN THE SOCS, THIS IS EXPRESSED AS THE PERCENT OCCURRENCE FREQUENCY (POF), WHERE THE FREQUENCY (NUMBER OF OCCURRENCES) IS GIVEN AS A PERCENT OF ALL POSSIBLE OCCURRENCES IN THE SAMPLE (PERIOD SUMMARIZED). FOR EXAMPLE, IF SNOW FELL ON 5 OUT OF 100 DAYS WE COULD EXPRESS THE "PERCENT OCCURRENCE FREQUENCY" OF SNOW AS 5 PERCENT OVER THE 100-DAY PERIOD. MAY BE USED INTERCHANGEABLY WITH "PERCENT FREQUENCY OF OCCURRENCE."

PERIOD OF RECORD: THE SIZE OF THE OBSERVATIONAL DATA SAMPLE, IN YEARS.

PRECIPITATION: A TERM THAT INCLUDES BOTH LIQUID PRECIPITATION AND WATER

STANDARD DEVIATION: A MEASURE OF DISPERSION ON THE VARIABILITY OF THE QUANTITY CONCERNED ABOUT ITS ARITHMETIC MEAN. THE LARGER THE STANDARD DEVIATION, THE GREATER THE VARIABILITY.

TIME CONVENTIONS: ALL TIMES IN THE SOCS ARE EXPRESSED IN LOCAL STANDARD TIME (LST). USERS SHOULD MAKE ADJUSTMENTS FOR DAYLIGHT SAVING TIMES IN THEIR AREAS. IN SUMMARIES THAT SHOW DIURNAL VARIATIONS, THE DATA IS SUMMARIZED USING THE POLLOWING STANDARD 3-HOUR PERIODS (ALL LST):

0000-0200	1200~1400
0300-0500	1500~1700
0600-0800	1800-2000
0900-1100	2100-2300

NOTE 1. DURING PART TIME PERIODS, THE FIRST AND LAST 3-HOUR PERIODS MAY HAVE SIGNIFICANT SHORTFALLS IN OBSERVATION COUNTS.

### APBREVIATIONS USED:

AMT	AMOUNT	LT	LESS THAN
ANN	ANNUAL	H	METER
BARO	BAROMETER	MB	MILLIBAR
C	CENTIGRADE (CELSIUS)	MPS	METERS PER SECOND
DEC	DEGREE	MSI,	MRAN SEA LEVEL
DB	DRY BULB TEMPERATURE	MEAS	MEASURABLE
DP	DEW POINT TEMPERATURE	NO.	NUMBER
BQ	BQUAL	OBS	OBSERVATION
P	Pahrenhe IT	OBST	OBSTRUCTION
FRZG	PREEZING	POF	PERCENT OCCURRENCE PREQUENCY
FT	FEET	PRECIP	PRECIPITATION
GE	GREATER THAN OR EQUAL TO	SD	STANDARD DEVIATION
CHT	GREENWICH MEAN TIME	SOD	SUMMARY OF DAY
<b>GT</b>	GREATER THAN	TEMP	TEMPERATURE
HG	INCHES OF MERCURY	TSTM	THUNDERSTORM
HT	HEIGHT	VSBY	VISIBILITY
KTS	KNOTS	VSN	VISION
LE	LESS THAN OR EQUAL TO	WB	WET BULB TEMPERATURE
LST	LOCAL STANDARD TIME	WBAN	AWS FORM 10/10A
		UTC	*COORDINATED UNIVERSAL TIME

SUMMARY DESCRIPTION: A BRIEF DESCRIPTION OF THE DATA PRECEDES EACH PART IN THE SOCS.

NOTE: OL-A/USAFETAC DERIVES STATION LATITUDE/LONGITUDE COORDINATES AND AIRFIELD ELEVATION DATA FROM THE AWS MASTER STATION CATALOG. THIS INFORMATION IS PRESENTED ON THE AWS CLIMATIC BRIEF FOR EACH STATION. THE STATION DATA MAY DIFFER FROM INFORMATION CONTAINED IN THE SOCS STATION HISTORY (DATA SUPPLIED BY AWS UNITS). THE STATION DATA MAY ALSO VARY FROM DATA PRESENTED IN DOD FLIGHT INFORMATION PUBLICATIONS (FLIP).

<sup>\*</sup> UTC REPLACED GMT ON 1 AUGUST 1988

STATION SUI		STATION NAME WILLIAMS AFB, AZ		ļ	LATITUD N 33 19		ONGITUDE	FLD ELEV (	FT)	CALL	SIGN	WMO	NMBR
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2	Jul 45	Same			elsyn		Same	25 ft					
3 4	Apr 53 Apr 56	In weather station Atop Base Operations			elsyn		ML-144B Same	48 ft 65 ft					
5	Apr 57	Atop weather station			me 		Same	40 ft					
6	Apr 59	Same		1	<b>180</b>	- 1	Same	35 ft					
7 8	Jan 61 Apr 62	750'NE rnwy NW-SE On SE end of NW-SE ri	1 <b>4</b> 7	4	7/GMQ-11 1388	1	RO-2 Same	13 ft 9 ft					
9	Apr 64	Same	1	1			Same	13 ft					
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#### PART A

#### ATMOSPHERIC PRENOMENA SUMMARIES

THIS PART SUMMARIZES SPECIFIED ATMOSPHERIC PHENOMENA IN CATEGORIES AS FOLLOWS:

THUNDERSTORMS: ALL REPORTED OCCURRENCES OF THUNDERSTORMS, TORNADOES, AND WATERSPOUTS.

LIQUID PRECIPITATION: RAIN OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING PRECIPITATION: FREEZING RAIN OR FREEZING DRIZZLE (GLAZE).

FROZEN PRECIPITATION: SNOW, SNOW PELLETS, SLEET, SNOW GRAINS, ICE CRYSTALS, ICE PELLETS. IN JANUARY 1968, SNOW PELLETS BECAME KNOWN AS SMALL HAIL.

HAIL: ALL OCCURRENCES OF HAIL.

ALL PRECIPITATION: INCLUDES ALL OBSERVATIONS REPORT' AG PRECIPITATION. BECAUSE MORE THAN ONE TYPE OF PRECIPITATION MAY BE INCLUDED IN THE SAME OBSERVATION, THE SUM OF PERCENTAGES IN THE INDIVIDUAL CATEGORIES MAY EXCEED THE PERCENTAGES IN THIS CATEGORY.

FOG: INCLUDES ALL REPORTED FOG, ICE FOG, AND GROUND FOG.

SMOKE AND/OR HAZE: SMOKE, HAZE, OR COMBINATIONS OF THE TWO.

BLOWING SNOW: ALL REPORTS OF BLOWING SNOW, INCLUDING DRIFTING SNOW, WHEN REPORTED.

DUST AND/OR SAND: DUST, SAND, BLOWING DUST, BLOWING SAND, OR COMBINATIONS OF THESE.

BLOWING SPRAY: THE "ALL OBSTRUCTIONS TO VISION" CATEGORY ACCOUNTS FOR BLOWING SPRAY, IF AND AS REPORTED.

ALL OBSTRUCTIONS TO VISION: THIS CATEGORY INCLUDES ALL REPORTS OF OBSTRUCTIONS TO VISION. SINCE THE OCCURRENCE OF MORE THAN ONE OBSTRUCTION TO VISION MAY BE REPORTED IN THE SAME OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL CATEGORIES MAY EXCEED THE PERCENTAGES IN THIS CATEGORY.

### SPECIFIED PHENOMENA -- PERCENT OCCURRENCE PREQUENCY.

THESE TABLES GIVE THE PERCENT OCCURRENCE FREQUENCY (POF) FOR THE ATMOSPHERIC PHENOMENA SHOWN. THE DATA WAS TAKEN FROM HOURLY OBSERVATIONS ONLY, AND IS SUMMARIZED AS FOLLOWS:

- BY BIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

A - 1 - 2

- SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY (POF).
  THIS TABLE IS THE ONLY ONE IN PART A THAT IS PRODUCED FROM SUMMARY OF DAY
  DATA. DATA IS SUMMARIZED MONTHLY AND ANNUALLY FOR ALL YEARS COMBINED.
- THUNDERSTORMS--PERCENT OCCURRENCE FREQUENCY.

  THIS TABLE GIVES THE PERCENT OCCURRENCE FREQUENCY OF THUNDERSTORMS REPORTED ON
  THE HOURLY OBSERVATION. DATA IS SUMMARIZED SAME AS FOR FIRST TABLE IN THIS PART.
- SPECIFIED PHENOMENA VS WIND DIRECTION--PERCENT OCCURRENCE FREQUENCY.

  THESE TABLES INCLUDE SUMMARY OF MONTH FOR ALL HOURS AND YEARS COMBINED. WIND DIRECTION CATEGORIES ARE AS SPECIFIED BY THE LOCAL WEATHER STATION.
- NOTE 1: REPURTING PRACTICES HAVE CHANGED WITH TIME. METAR AND SYNOPTIC REPORTING STATIONS RECORD (ON AWS FORMS 10/10A) AND TRANSMIT LONGLINE ONLY THE HIGHEST ORDER ATMOSPHERIC PHENOMENA THAT AFFECTS VISIBILITY. METAR STATIONS STARTED THIS PROCEDURE IN JANUARY 1968, BUT SYNOPTIC STATIONS ALWAYS DID IT THAT WAY. IN JANUARY 1970, METAR STATIONS STARTED RECORDING ALL ATMOSPHERIC PHENOMENA THAT AFFECTED VISIBILITY, BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE RECORDED OBSERVATION INCLUDED RAIN, FOG AND HAZE, ONLY THE RAIN WAS TRANSMITTED. BECAUSE OF THESE PROCEDURES, THE USAFFTAC DATABASE WOULD SHOW ONLY RAIN AS AN OBSTRUCTION. THEREFORE, THE OBSTRUCTION TO VISION (AND TO A LESSER EXTENT, PRECIPITATION) SUMMARIES FOR METAR AND SYNOPTIC STATIONS ARE HIGHLY QUESTIONABLE.
- NOTE 2: FOREIGN METAR REPORTING STATIONS FREQUENTLY DO NOT TRANSMIT OBSTRUCTIONS TO VISION WHEN VISIBILITIES EXCEED 1000 METERS.
- NOTE 3: A VALUE OF ".0" IN ANY SUMMARY REPRESENTS ONE OR MORE OCCURRENCES THAT, IN AGGREGATE, AMOUNT TO LESS THAN .05 PERCENT.
- NOTE 4: DURING PART TIME PERIODS, THESE TABLES MAY NOT ACCURATELY REFLECT NIGHTTIME AND/OR WIEKEND OCCURRENCES OF CERTAIN PHENOMENA.

OPERATING LOCATION "A" USAFFTAC, ASHEVILLE NO

### PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JAN BOURS TSTMS LIQUID FREEZ FROZEN HAIL ALL FOG SMOKE BLOWING DUST ALL TOTAL (LST) PRECIP PRECIP PRECIP PRECIP &/QR SNOW &/OR OBST NO. OF SAND TO VSN HAZE OBS 00-02 0 03-05 2.2 2.2 2.5 4.7 406 06-08 2.9 2.9 4.2 7.1 719 09-11 2.3 2.3 3.8 .1 6.3 895 12-14 1.9 1.9 1.2 -4 .3 3.9 896 15-17 4.1 4.1 1.5 781 5.8 . 1 18-20 3.3 3.3 1.2 .6 .2 5.2 521 21-23 5.4 5.4 5.4 37 ALL HOURS 2.8 2.8 2.4 .2 5.5 4255 MONTH: FEB ...... 00-02 03-05 3.1 3.1 1.3 4.7 .3 383 90-90 3.4 3.4 4.3 .9 669 09-11 2.5 2.5 1.1 3.6 828 2.4 2.4 12-14 .1 .2 . 1 2.8 828 .1 .3 15-17 2.6 2.7 .3 .1 3.1 740 3.7 3.7 18-20 3.7 515 21-23 4.7 4.7 4.7 ALL HOURS 2.9 - 1 .0 2.9 .6 3.6 4048

A - 2 - 1

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

HOURS

1.6

# PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAR ...... TSTMS LIQUID FREEZ FROZEN HAIL ALL FOG SMOKE BLOWING DUST ALL BOURS TOTAL (LST) PRECIP PRECIP PRECIP PRECIP &/OR SNOW &/OR OBST NO. OF HAZE SAND TO VSN OBS 00-02 0 03-05 5.1 5.1 5.1 447 06-08 5.4 779 5.4 .3 5.6 09-11 3.6 3.6 4.0 927 .4 12-14 3.2 3.2 .2 .3 3.8 929 15-17 .2 3.8 .1 3.9 .1 .1 4.5 845 18-20 3.2 3.2 .2 3.4 616 21-23 5.4 5.4 6.2 .8 129 ALL HOURS .1 4.0 .0 4.0 4672 MONTE: APR 00-02 03-05 430 06-08 2.4 2.4 2.4 744 09-11 1.3 1.3 .1 .2 1.7 900 12-14 1.7 1.7 .6 2.2 900 15-17 .1 1.4 1.4 .1 1.2 2.7 804 18-20 .3 1.9 1.9 .2 .2 2.2 588 21-23 2.3 2.3 2.3 133 ALL

1.6

A - 2 - 2

2.0

4499

OPERATING LOCATION "A" USAPETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAY

HOURS	TSTMS	LIQUID	PREEZ	FROZEN	HAIL	ALL	FOG	SMOKE	BLOWING	DUST	ALL	TOTAL
(LST)		PRECIP	PRECIP	PRECIP		PRECIP		&/OR HAZE	SNOW	&/OR SAND	OBST TO VSN	NO. OF OBS
•••••		• • • • • • • • •						· · · · · · · ·	• • • • • • • • •			
00-02	]											0
03-05	.7	1.4				1.4					1.4	422
06-08	.3	1.0				1.0					1.0	732
09-11		.2				.2					.2	909
12-14		.3				.3					.3	908
15-17	.5	1.0				1.0				.6	1.6	790
18-20	.8	1.4				1.4				.3	1.7	591
21-23	[ [ ]											148
ALL Hours	.3	.8				.8				.2	.9	4500
•••••	•••••	•••••	• • • • • • • • •	•••••		• • • • • • •	•••••	• • • • • • • •	MONTE:		• • • • • • • • • •	•••••
00-02		••••••	•••••	•• . • • • • •	• • . • • • •	•••••	•••••	• • • • • • •	• • • • • • • • • •	• • • • • • •	• • • • • • • • •	0
03-05	1											
		.5				.5					.5	435
06-08	.1	.5 .7				.5 .7					.5	435 737
06-08 09-11	-1											
	.1	.7				.7					.7	737
09-11	-1	.7				.7					.7	737 900
09-11 12-14	1.0	.7				.7				.6	.7	737 900 900
09-11 12-14 15-17		.7 .4 .2				.7 .4 .2				.6	.7 .4 .2	737 900 900 798

A - 2 - 3

.2 .5 .5 .1 .6 4566

OPERATING LOCATION "A"

## PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA

USAFETAC, ASHEVILLE NO FROM HOURLY OBSERVATIONS STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JUL TSTMS LIQUID FREEZ FROZEN HAIL ALL FOG SMOKE BLOWING DUST ALL HOURS TOTAL &/OR SNOW (LST) PRECIP PRECIP PRECIP PRECIP &/OR ORST NO. OF HAZE SAND TO VSN OBS 00-02 0 03-05 1.9 3.8 3.8 .2 4.0 426 .5 06-08 1.9 2.1 728 1.9 .1 09-11 .2 .9 .8 .8 .1 12-14 .6 .7 .7 .1 .8 908 15-17 1.8 .7 814 .7 .5 1.2 18-20 2.2 3.8 3.8 6.0 651 3.8 21-23 6.1 6.1 .6 6.7 164 ALL HOURS .5 1.5 1.8 2.3 4597 1.8 MONTH: AUG 00-02 1.5 03-05 1.5 1.5 1.5 460 06-08 .8 2.5 2.5 .4 2.9 771 09-11 .4 1.2 1.2 1.2 930 .2 12-14 1.4 1.4 .1 1.5 930 1.7 .7 15-17 1.8 839 1.1 1.1 18-20 4.3 2.9 .2 1.8 4.9 657 2.9 21-23 3.8 3.8 1.3 5.0 159 ALL HOURS | .0 2.3 4746

OPERATING LOCATION "A" USAPETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: SEP BOURS | TSTMS LIQUID FREEZ FROZEN HAIL ALL FOG SMOKE BLOWING DUST ALL TOTAL SNOW (LST) &/OR PRECIP PRECIP PRECIP PRECIP s/OR OBST NO. OF HAZE SAND TO VSN OBS 00-02 0 03-05 .5 1.2 1.2 1.2 420 06-08 1.3 2.2 2.2 2.2 716 09-11 .8 2.2 2.2 .1 879 12-14 .5 1.7 1.7 .1 1.8 879 15-17 1.5 2.3 2.3 2.7 783 .4 18-20 2.5 3.4 3.7 .3 590 21-23 2.8 2.8 2.8 143 BOURS | .0 1.2 2.2 2.2 .2 2.4 4410 MONTH: OCT 00-02 03-05 .5 2.8 2.8 2.8 426 .1 06-08 .5 2.0 2.0 2.2 743 09-11 .3 1.7 1.7 1.8 909 .1 12-14 .7 2.0 2.0 .1 .2 2.3 909 15-17 .4 2.3 2.3 2.5 810 .7 18-20 2.1 2.1 2.1 566 21-23 1.2 1.2 1.2 83 ALL BOURS 2.1 .1 .0 .0 4446

OPERATING LOCATION "A" USAPETAC, ASSEVILLE NC

# PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: NOV TSTMS LIQUID FREEZ FROZEN HAIL ALL FOG SMOKE BOURS BLOWING DUST TOTAL (LST) PRECIP PRECIP PRECIP &/OR SNOW &/OR OBST PRECIP NO. OF SAND TO VSN HAZE OBS 00-02 0 03-05 2.3 2.3 .3 2.6 391 .3 06-08 3.1 3.1 3.6 688 09-11 3.1 3.1 .8 .1 4.0 850 12-14 2.6 2.6 .7 855 .1 3.4 15-17 .1 2.5 2.5 .3 .7 3.4 756 18-20 2.4 2.4 .2 2.6 507 21-23 4.5 4.5 4.5 44 ALL HOURS .1 2.7 2.7 .5 .0 3.4 4091 MONTH: DEC ....... 00-02 03-05 2.8 2.8 1.8 4.6 326 06-08 .3 4.6 .2 4.7 2.7 .2 7.6 658 09-11 4.5 3.7 8.9 864 . 1 .1 4.6 -6 12-14 .1 3.1 .2 3.4 1.8 .5 5.7 865 15-17 .1 3.5 .1 3.6 1.2 .3 5.1 745 5.2 5.7 405 18-20 .5 .2 5.4 .2 2.4 4.A 21-23 2.4 2.4 4.8 42 ALL HOURS 3.9 .2 4.1 2.1 .3 6.5 3905

OPERATING LOCATION "A" USAPETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF VARIOUS ATMOSPHERIC PHENOMENA FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 HOURS: ALL

				oic. v	•				BOURS.	vm.		
новтн	TSINS	LIQUID PRECIP	PREEZ PRECIP	PROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
JAN	.0	2.8	•••••	•••••	• • • • • • •	2.8	2.4	.2	• • • • • • • • •	.1	5.5	4255
PEB	.1	2.9			.0	2.9	.6			.1	3.6	4048
MAR	.1	4.0			.0	4.0	.2	.0		.2	4.4	4672
APR	.1	1.6				1.6	.1			.4	2.0	4499
MAY	.3	.8				.8				.2	.9	4500
JUN	.2	.5				.5				.1	.6	4566
ஶ	1.5	1.8				1.8				.5	2.3	4597
AUG	1.4	1.8				1.8	.1		.0	.4	2.3	4746
SEP	1.2	2.2				2.2		.0		.2	2.4	4410
ост	.5	2.1				2.1	.0		.0	.1	2.2	4446
NOV	.1	2.7				2.7	.5	.0		.2	3.4	4091
DIBC	.2	3.9		.2		4.1	2.1	.3			6.5	3905
ANNUAL	.5	2.2		.0	.0	2.2	.5	.0	.0	.2	3.0	52735

OPERATING LOCATION 'A' USAFETAC, ASHEVILLE NC

# PERCENTAGE FREQUENCY OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFE AZ LST TO UTC: +07 PERIOD OF RECORD: 4203-6101,6305-9103
MONTH: ALL HOURS: ALL

TO UTC: +0/	MONTH: ALL	HOURS: ALL

					<b></b> .							
HOWIE	TSTMS	LIQUID PRECIP	PRECIP	PROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
JAN	.7	17.2	• • • • • • • • • •	.1		17.2	5.8	2.1	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	20.8	1260
FEB	1.8	16.8			.8	16.8	2.5	.4		.3	17.8	1131
MAR	2.2	17.1		.2	.5	17.1	1.7	.3		.1	17.7	1262
APR	2.5	10.8			.3	10.8	.8	.3		.2	11.1	1179
MAY	3.3	7.6			.2	7.6		.1		.4	7.7	1225
JUN	4.1	6.1			.2	6.2				.9	6.5	1201
JUL	18.1	25.6			.1	25.6	.2	.1		1.9	26.2	1244
AUG	17.0	24.2				24.2	.6	.1		2.6	25.3	1268
SEP	9.4	15.2			.3	15.2	.7	.4		1.6	16.2	1191
OCT	4.2	13.2			.2	13.2	1.3	.7		.3	14.1	1239
NON	1.5	11.6			.1	11.6	2.8	1.8			14.4	1177
DEC	1.3	15.1		.3	.4	15.1	4.8	2.5			18.4	1198
AMNUAL	5.6	15.1		.0	.3	15.1	1.8	.7		.7	16.4	14575

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

# PERCENTAGE FREQUENCY OF OCCURRENCE OF THUNDERSTORMS FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

			LST TO	UTC: + 7									
Hours (LST)	JAN	PRB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	•••••
00-02		•••••	• • • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	•••••	• • • • • • • • •	••••
03-05					.7		1.9	1.5	.5	.5	.3		
06-08				.1	.3	.1	.5	.8	1.3	.5	.4	.3	
09-11							.2	.4	.8	.3		.1	
12-14		.1	.2	.1			.6	.2	.5	.7		.1	
15-17	.1	.3	.2	.1	.5		1.8	1.7	1.5	.4	.1	.1	
18-20		.2		.3	.8	1.0	3.8	4.3	2.5	.7	.2	.5	
21-23			.8			.6	7.3	4.4	1.4			2.4	
ALL BOURS	.0	.1	.1	.1	.3	.2	1.5	1.4	1.2	.5	.1	.2	
TOTAL OBS	4255	4048	4672	4499	4500	4566	4597	4746	4410	4446	4091	3905	••••

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JAN HOURS: ALL PHENOMENA | CALM VARIABLE 330 - 059 060 - 149 150 - 239 240 - 329 NO OF OBS 100.0 LIOUID 13.6 11.9 24.6 22.0 28.0 118 PRECIP PREEZING PRECIP FROZEN PRECIP 31.1 6.8 30.1 12.5 19.4 103 POG WITH VIS 32.2 26.7 13.3 22.2 GE 1/2 MILES 1241 0 461 1291 477 785 0 4255 TOTAL OBS | 1241 MONTH: FEB HOURS: ALL TSTMS 20.0 10.4 LIQUID 12.2 7.8 51.3 18.3 115 PRECIP FREEZING PRECIP FROZEN PRECIP FOG 41.7 25.0 33.3 24 FOG WITH VIS 36.4 27.3 36.4 22 GR 1/2 MILES TOTAL OBS | 945 0 389 1407 510 795 0 4048

4048

USAFETAC, ASHEVILLE NC

### OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAR HOURS: ALL PHENICHENA | CALM VARIABLE 330 - 059 060 - 149 150 - 239 240 - 329 NO OF OBS ••••••••••••••••••••••••••••••• 20.0 60.0 20.0 TSTMS 24.5 20.7 25.5 10.9 18.5 184 LIQUID PRECIP FREEZING PRECIP PROZEN PRECIP 55.6 11.1 33.3 FOG 55.6 POG WITH VIS 33.3 11.1 GE 1/2 MILES TOTAL OBS | 714 0 407 1496 791 1264 0 4672 4672 MONTH: APR HOURS: ALL TSTMS 20.0 20.0 40.0 20.0 5 TSTMS 13.8 26.2 27.7 29.2 65 LIQUID 3.1 PRECIP FREEZING PRECIP PROZEN PRECIP 33.3 66.7 POG 33.3 66.7 FOG WITH VIS 3 ME 1/2 MILES NOTAL OBS | 566 0 306 1419 876 1332 0 4499

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA VERSUS WIND DIRECTION FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAY HOURS: ALL PHENOMERA | CALM VARIABLE 330 - 059 060 - 149 150 - 239 240 - 329 NO OF OBS TSTMS 7.1 21.4 35.7 35.7 14 19.2 34.6 11.5 19.2 LIQUID 15.4 26 PRECIP FREEZING PRECIP PROZEN PRECIP FOG FOG WITH VIS GE 1/2 MILES TOTAL OBS | 434 0 273 1389 946 1458 0 4500 MONTH: JUN HOURS: ALL 25.0 37.5 37.5 TSTMS 56.3 18.8 6.3 12.5 LIQUID 6.3 16 PRECIP FREEZ ING PRECIP FROZEN PRECIP FOG FOG WITH VIS GE 1/2 MILES TOTAL OBS | 420 0 298 1355 791 1702 0 4566 XPERATING LOCATION "A" SAPETAC, ASHEVILLE NO

OG WITE VIS

E 1/2 MILES

### PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JUL HOURS: ALL MENCHENA CALM VARIABLE 330 - 059 060 - 149 150 - 239 240 - 329 NO OF OBS 28.2 23.9 22.5 25.4 (STMS 17.9 37.5 17.9 LIQUID 16.1 10.7 56 PRECIP REEZING RECIP ROZEN RECIP POG OG WITH VIS IE 1/2 MILES NOTAL OBS | 516 0 276 1165 728 1912 0 4597 MONTH: AUG HOURS: ALL **ISTMS** 5.9 13.2 45.6 19.1 16.2 68 58.6 JOUTD. 13.8 15.5 3.4 8.6 58 RECIP REEZING RECIP TROZEN RECIP 75.0 25.0 'OG

75.0

OTAL OBS | 549 0 317 1502 765 1613 0 4746

25.0

4746

USAFETAC, ASHEVILLE NC

### OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: SEP HOURS: ALL ...... PHENOMENA | CALM VARIABLE 330 - 059 060 - 149 150 - 239 240 - 329 NO OF OBS 2.0 21.6 35.3 21.6 19.6 51 31.3 31.3 10.4 17.9 LIQUID 9.0 PRECIP PREEZING PRECIP FROZEN PRECIP POG FOG WITH VIS GE 1/2 MILES TOTAL OBS | 598 0 284 1604 662 1262 0 4410

					M	ONTH: OCT H	OURS: ALL	
TSTMS	4.5	•••••	18.2	27.3	18.2	31.8		22
PECIP	5.2		19.5	45.5	15.6	14.3		77
FREEZING PRECIP	ı							
PROZEN PRECIP	:							
FOG			50.0		50.0			2
FOG WITH VIS GB 1/2 MILES			50.0		50.0			2
TOTAL OBS	1175	0	299	1418	614	940	0	4446

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

PRECIP

POG WITH VIS

GE 1/2 MILES

37.8

37.5

FOG

### PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA VERSUS WIND DIRECTION FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 MONTH: NOV HOURS: ALL LST TO UTC: + 7

PEROMENA	CALM	VARIABI P	330 - 059	060 - 149	150 - 239	240 - 329		NO OF OB
ISTMS	• • • • • • • •	••••••	33.3	16.7	• • • • • • • • • • • • •	50.0	••••••	6
LIQUID	4.7		12.1	33.6	32.7	16.8		107
rezing recip								
ROZEN PRECIP								
rog	40.0			35.0	15.0	10.0		20
OG WITH VIS E 1/2 MILES	44.4			27.8	16.7	11.1		18
NOTAL OBS	1248	0	350	1259	425	809	0	409
		• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	MONTE: DEC HO	URS: ALL	
STMS	25.0			50.0	12.5	12.5		8
IQUID RECIP	16.0		16.7	36.7	19.3	11.3		150
PRECIP								
1								

12.2

11.3

A - 5 - 6

26.8

27.5

TOTAL OBS | 1282 0 333 1190 387 713 0 3905

13.4

13.8

9.8

10.0

82

80

3905

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

FOG WITH VIS

GE 1/2 MILES

TOTAL OBS 9689

32.9

### PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 MONTHS: ALL LST TO UTC: + 7 PHENOMENA | CALM VARIABLE 330 - 059 060 - 149 150 - 239 240 - 329 NO OF OBS TSTMS 3.8 19.7 33.0 20.5 23.1 264 34.4 20.1 17.6 17.6 LIQUID 10.3 1039 PRECIP FREEZING PRECIP PROZEN 28.6 14.3 42.9 14.3 7 PRECIP FOG 32.8 8.5 27.9 14.2 16.6 247

26.3

14.9

18.0

7.9

228

PPPPPPPPP PPPPPPPPPP		AAAAAA Aaaaaaaa		RRRRRRRR RRRRRRRR		TTTTTTTTTT	вивенен		
						TTTTTTTTT	врввввввв		
PP	PP	λλ	AA	RR	RR	TT	ВВ	BB	
PP	PP	AA	Aλ	RR	RR	TT	ВВ	BB	
PPPPPPPPP		AA	AA	RRRRRRRRR		TT	врввввввв		
PPPPPPPP		λλλλλλλλλ		RRRRRRRR		TT	BBBBBBBBBB		
PP		AAAAA	AAAAA	RR	RR	TT	BB	BB	
PP		λA	λλ	RR	RR	TT	ВВ	BB	
PP		λA	AA	RR	RR	TT	BBBBBBBBBB		
PP		AA	AA	RR	RR	opp.	RURRER	RRR	

#### PART B

### PRECIPITATION, SNOWPALL, SNOW DEPTH SUMMARIES

ALL TABLES IN PART B ARE CREATED FROM SUMMARY OF DAY (SOD) DATA.

### PERCENT OCCURRENCE FREQUENCY.

THESE TABLES GIVE THE PERCENT OCCURRENCE PREQUENCY OF PRECIPITATION, SNOWFALL AND SNOW DEPTH. DATA IS SUMMARIZED FOR ALL YEARS COMBINED. SUMMARIES INCLUDE THE PERCENT OF DAYS WITH MEASURABLE AMOUNTS, PERCENT OF DAYS WITH SPECIFIED AMOUNTS, PERCENT OF DAYS WITH SPECIFIED AMOUNTS. SUMMARIES ALSO PROVIDE AN OBSERVATION COUNT. A VALUE OF ".0" INDICATES ONE OR MORE OCCURRENCES THAT, IN AGGREGATE, AMOUNT TO LESS THAN .05 PERCENT.

### MONTHLY TOTALS.

THESE TABLES GIVE THE TOTAL MONTHLY PRECIPITATION AND SNOWFALL RESPECTIVELY.
THEY ARE SUMMARIZED BY MONTH FOR ALL YEARS. THE TABLES ALSO GIVE THE GREATEST
AMOUNTS, LEAST AMOUNTS, MEAN, MEDIAN, STANDARD DEVIATIONS, AND TOTAL AVAILABLE
OBSERVATIONS. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS
THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE
OR MORE MISSING AND/OR INCOMPLETE MONTHS. INCOMPLETE MONTHS/YEARS ARE NOT INCLUDED
IN STATISTICAL COMPUTATIONS. NOTE: LEAST AMOUNTS ARE DERIVED FROM COMPLETE
MONTHS/YEARS ONLY. ".00" MEANS NO PRECIPITATION FOR THE MONTH, ".0" MEANS NO
SNOWFALL FOR THE MONTH.

### DAILY EXTREMES.

THESE TABLES GIVE THE MAXIMUM DAILY REPORTED AMOUNTS (BY INDIVIDUAL YEARMONTH) FOR PRECIPITATION, SNOWFALL, AND SNOW DEPTH, RESPECTIVELY. THEY SHOW
THE GREATEST AMOUNTS FOR EACH MONTH AND THE TOTAL NUMBER OF AVAILABLE OBSERVATIONS FOR EACH MONTH AND YEAR. AN ASTERISK (\*) INDICATES A MONTH FOR WHICH
LESS THAN 90% OF DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE
OR MORE MISSING AND/OR INCOMPLETE MONTHS. ".00" MEANS NO PRECIPITATION FOR THE MONTH,
".0" MEANS NO SNOWFALL FOR THE MONTH, AND "0" MEANS NO SNOW DEFTH FOR THE MONTH.

SNOWFALL/SNOW DEPTH--FIRST AND LAST DAYS OF OCCURRENCE BY SNOW YEAR.

THIS SUMMARY GIVES THE FIRST AND LAST OCCURRENCES OF SNOWFALL AND SNOW
DEPTH FOR THE SNOW-YEAR DURING THE PERIOD OF RECORD. FOR THIS SUMMARY, THE
SNOW-YEAR IS CONSIDERED TO RUN FROM 1 AUGUST TO 31 JULY. TABLES SUMMARIZE
THE DATA BY SNOW-YEAR, BY MONTH, AND BY DAY. THE FIRST (OR LAST) ENTRY IN
COLUMN 69 OF AWS FORMS 10/10A (OR EQUIVALENT) AS EITHER A TRACE OR A MEASURABLE
AMOUNT DEFINES THE FIRST (OR LAST) SNOWFALL FOR THE THE YEAR. THE FIRST (OR LAST)
ENTRY IN COLUMN 69 OTHER THAN ".0" OR "TRACE" DEFINES THE FIRST (OR LAST)
MEASURABLE SNOWFALL. FINALLY, THE 1200 GMT ENTRY COLUMN 70 OF AWS FORM 10/10A
(OR EQUIVALENT) DEFINES THE FIRST (OR LAST) OCCURRENCE OF SNOW DEPTH. THE LAST
SNOW DEPTH IS CONSIDERED THE LAST SNOW MELT. THIS SUMMARY IS NOT PROVIDED
WHEN NO SNOWFALL OCCURS DURING THE GIVEN POR.

- NOTE 1. IF THE MINIMUM AMOUNT RECORDED IN THE MONTHLY TOTALS OR DAILY EXTREMES IS A TRACE, THE WORD "TRACE" WILL APPEAR IN THE APPROPRIATE COLUMN.
- NOTE 2. TABLES INCLUDE STATISTICAL DATA ONLY WHEN FIVE (5) OR MORE SETS OF COMPLETE MONTHS ARE AVAILABLE.
- NOTE 3. THE OBSERVATION COUNTS OR THE STATION HISTORY MIGHT PROVIDE CLUES AS TO WHY CERTAIN DATA ARE MISSING. FOR EXAMPLE, ONLY A FEW MISSING OBSERVATIONS MIGHT IMPLY MISSING DATA BECAUSE OF EQUIPMENT MALFUNCTION, BUT MORE THAN SEVERAL MISSING OBSERVATIONS USUALLY MEANS THE STATION IS (OR HAS BEEN) CLOSED.
- NOTE 4. IN DAILY AND MONTHLY AMOUNTS SUMMARIES, THE LAST ENTRY ON THE PAGE GIVES THE GREATEST AMOUNT FOR THE PERIOD OF RECORD.
- NOTE 5. BEFORE JANUARY 1956, SNOWFALL OCCURRENCES IN THE SUMMARY OF DAY INCLUDED HALL.
- NOTE 6. SNOW DEPTH REPORTING TIMES FOR USAF, NAVY AND CIVIL STATIONS ARE AS FOLLOWS:

AIR FORCE		NAVY AND NATIONAL WEATHER	SERVICE
THROUGH 1945:	0800 LST	THROUGH JUN 1952:	0030 GMT
JAN 1946 TO MAY 1957:	1230 LST	JUN 1952 TO MAY 1957:	1230 GMT
JUN 1957 TO PRESENT:	1200 GMT	JUN 1957 TO PRESENT:	1200 GMT

NOTE 7. 24-HOUR PRECIPITATION (INCLUDING SNOWFALL AND SNOW DEPTH) VALUES DERIVED FROM PART TIME PERIODS MAY NOT REFLECT TRUE 24-HOUR AMOUNTS. RECORDED AMOUNTS FOLLOWING WEEKENDS AND/OR HOLIDAYS PREQUENTLY REPRESENT AMOUNTS MEASURED FOR PERIODS GREATER THAN 24 HOURS. IN ADDITION, 24-HOUR AMOUNTS MAY NOT REPRESENT THE STANDARD CLIMATOLOGICAL 24-HOUR "MIDNIGHT TO MIDNIGHT" AMOUNT. DATA FROM PART TIME PERIODS MAY NOT ACCURATELY REFLECT NIGHTTIME PRECIPITATION EVENTS.

### CONVERSIONS:

- 1 INCH = 25.39998 MILLIMETERS
- 1 MILLIMETER = .03937 INCHES

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

# PERCENTAGE PREQUENCY OF OCCURRENCE OF PRECIPITATION IN INCHES FROM SUMMARY OF DAY DATA

PERIOD OF RECORD: 4203-6101,6305-9103 STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ LST TO UTC: +07 MONTH: ALL HOURS: ALL SEP AMOUNTS JAN FER MAR APR may jun JUL AUG OCT NOV DEC ANN (INCHES) MONE 79.4 80.8 87.4 92.2 93.9 70.7 71.6 83.0 85.0 86.5 83.0 TRACE 6.8 6.9 6.6 5.4 4.7 3.8 14.6 12.7 6.9 5.5 5.0 4.3 7.0 .9 .5 .01 1.4 .9 1.1 1.7 .4 1.9 1.7 .5 .6 1.5 1.1 .02-.05 3.5 2.7 1.7 1.5 .8 4.4 4.8 2.1 2.4 1.8 2.3 2.4 1.1 .06-.10 1.3 .2 2.4 1.7 1.2 1.4 1.8 .11-.25 3.6 3.1 3.4 1.3 .7 .6 3.1 2.8 3.0 2.5 1.9 2.8 2.4 .8 .26-.50 2.6 2.2 2.4 1.2 .4 .3 1.7 2.2 1.4 1.7 2.4 1.6 1.0 .51-1.00 1.4 1.3 1.2 . 4 .1 .1 1.7 1.1 1.1 1.1 1.5 1.0 1.01-2.50 .1 .3 .5 .1 . 1 .8 1.0 .3 .3 .2 .3 2.51-5.00 .1 .0 5.01-10.00 10.01-20.00 OVER 20.00 DAYS WITH 13.8 12.8 12.5 7.2 3.2 2.3 14.6 15.7 10.2 9.5 8.6 12.7 Meas amis 10.3 TOTAL NO. OF OBSERVATIONS | 1319 1168 1310 1265 1352 1323 1353 1376 1309 1317 1270 1301 15663 OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

# TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE AZ PERIOD OF RECORD: 4203-6101,6305-9103

LST TO UIC: +07								MONTH: ALL HOURS: ALL					
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
42		•••••	TRACE	1.29	.00		• • • • • • • • • • • • • • • • • • • •						5.31*
43	.71	.10	.51	TRACE	TRACE	.00 TRACE	1.11	1.94	.43 2.06	.31	.00	.23	5.79
44	.28	1.71	1.12	.51	.68	.00	.16 .46	1.08 .30	.65	.14 .26	.00 .96	1.03 .60	7.53
45	.87	.19	1.03	TRACE	.00	.00	.19	.58	TRACE	.58	.00	.56	4.00
43	]	•19	1.03	IMCD	.00	.00	.19	.56	INACE	. 30	.00	.50	4.00
46	.88	.12*		.05	.00	.00	.48	1.15	3.19	.39	1.56	.59	8.41*
47	TRACE	.77	TRACE	TRACE	.16	.00	.03	4.11	1.00	.38	.33	.68	7.46
48	.00	1.36	.12	.00	.00	TRACE	.55	.65	TRACE	.14	.00	.66	3.48
49	1.18	.05	.34	.29	TRACE	.67	.33	1.07	.62	.14	.64	1.48	6.81
50	.60	.88	.13	.00	.02	TRACE	.51	.66	.71	.00	TRACE	TRACE	3.51
51	1.62	.13	.41	1.50	.04	.00	1.51	5.05	.12	.16	.63	.65	11.82
52	.90	. 37	1.35	1.19	TRACE	.18	.44	.16	.70	.00	3.26	.60	9.15
53	.30	.53	.54	.03	TRACE	TRACE	2.20	.21	.00	TRACE	.19	.16	4.16
54	.77	.97	1.47	.07	.17	.02	1.09	1.70	2.12	.03	TRACE	-05	8.46
55	2.28	.10	TRACE	TRACE	TRACE	.27	2.87	2.95	.01	.05	.08	. 32	8.93
56	1.08	.75	.00	.14	TRACE	TRACE	.51	TRACE	TRACE	.28	.00	.02	2.78
57	1.72	. 36	.68	. 15	.48	.34	.80	.58	TRACE	3.78	.04	.42	9.35
58	TRACE	1.16	1.37	.67	TRACE	.18	.17	.30	3.10	.19	.26	.00	7.40
59	.24	1.05	TRACE	.09	TRACE	.02	.37	2.73	.20	1.76	.24	4.34	11.04
60	1.67	.13	.22	TRACE	TRACE	TRACE	1.02	.92	.17	1.08	TRACE	.10	5.31
61	.00*												.00*
63					TRACE	.00	.05	1.32	. 15	.76	1.46	.06	3.80*
64	.33	TRACE	.43	TRACE	TRACE	.00	1.55	1.32	1.64	.57	.80	.73	7.37
65	1.04	1.11	.89	1.18	.22	.21	. 16	.90	.32	*	.35*	1.16*	7.54*
66	.08*	.36*	.04*	TRACE*	TRACE*	.04*	.09*	.03*	.75*	.53*	TRACE*	.03*	1.95*
67	.16*	*	.57*	TRACE*	TRACE*	TRACE*	.04*	.04*	.02*	.07*	.03*	1.27*	2.20*
68	.14*	.45*	TRACE*	TRACE*	TRACE*	*	.08*	.15*	*	.20*	1.00*	.01*	2.03*
69	1.49*	.15*	.14*	.01*	.53	.00	. 44	.76	1.17	.23	.75	.59	6.26*
70	TRACE	.26	2.60	.06	.00	.13	.30	.19	2.76	.61	.04	.31	7.26
71	.15	.24	TRACE	.30	TRACE	.00	.52	4.15	2.06	1.41	.03	.34	9.20
72	.00	TRACE	.00	.00	.02	.13	.33	1.61	.22	3.57	.99	1.40	8.27
73	.34	2.30	2.76	.02	.01	.05	.23	.18	.00	.00	.81	.00*	6.70*
74	1.25	TRACE	1.50	TRACE	TRACE	.00	2.11	.05	.34	1.27	.05	.53*	7.10*
75	.03	1.37	1.59	.96	TRACE	.00	1.58	.08	.63	.08	1.39	.62	8.33

OPERATING LOCATION 'A' USAPETAC, ASHEVILLE NC

.84 .81 2.20

# TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE AZ PERIOD OF RECORD: 4203-6101,6305-9103 LST TO UTC: +07 MONTH: ALL HOURS: ALL YEAR JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANNUAT. .03 .26 76 .72 .22 .40 1.24 .43 1.35 .33 .69 1.23 8.64 1.74 77 .40 TRACE .53 .01 .19 .02 .07 .41 1.00 .58 .20 .88\* 4.29\* 78 3.01 2.27 .57 .04 .28 1.88 3.91\* 17.59\* 3.16 .96 -40 .01 1.10 .13 .21 .02 79 2.56 1.90 .51 .13 .26 .01 .45 .18 1.31 7.67 .30 TRACE .18 80 1.83 2.13 .99 .25 .51 .11 .49 .00 .14 6.93 81 .65 .17 .02 1.29 1.23 .30 .99 .40 .15 .48 .91 .00\* 6.59\* 82 1.29 .73 1.94 TRACE .09 .00 .70 2.47 .93 TRACE 1.34 1.76\* 11.25\* 83 3.52 .04 .00 .00 .98 .55 .92\* .81 .96 2.58 1.55 3.64 15.55\* .26 84 .00 .00 1.32 .01 .59 1.55 1.20 3.73 .36 .64 3.99 13.65 85 .72 .52 .10 .93 .22 .15 TRACE 1.35 .03 2.32 1.48 .76 8.58 .01 1.55 86 1.78 TRACE .02 1.51 .71 2.75 .06 1.48\* 10.45\* .96 .07 .24 .17 .10 .19 .33 87 2.89 .22 1.22 1.39 1.16 8.94 .00 88 .65 .35 .07 1.89 .00 .03 .44 .80 1.61 .72 .21 6.77 89 1.14 .01 1.11 .00 .05 .00 .11 .03 .46 .43 .23 .35 3.92 .55 .15 .18 .02 .75 .77 90 1.17 1.05 .94 3.22 1.31 1.62 11.73

3.85\*

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

# TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES

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STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ

PERIOD OF RECORD: 4203-6101,6305-9103

			TO UTC:								OURS: ALI	_	
YEAR	JAN	FRB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Nov	DEC	ANNUAL
•••••	•••••		• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •		

!													
LEAST	.00	.00	.00	.00	.00	.00	.03	TRACE	.00	.00	.00	.00	2.78
GREATEST	3.01	3.16	3.52	1.89	.72	.67	2.87	5.05	3.73	3.78	3.26	4.34	17.59
HEAN	.82	.79	.91	.36	.11	.09	.74	1.21	.92	.67	.60	.73	7.56
MEDIAN	.75	.73	.61	.10	.01	TRACE	.51	.85	.49	.36	.33	.59	7.53
SD	.729	.796	.894	.515	.191	.152	.649	1.220	1.075	.893	.681	.955	2.610
TOTAL OBS	1319	1168	1310	1265	1352	1323	1353	1376	1309	1317	1270	1301	15663

THE GREATEST VALUE OF 5.05 OCCURRED ON 08/51

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NO

### EXTREME DAILY PRECIPITATION AMOUNTS IN INCHES FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE AZ PERIOD OF RECORD: 4203-6101,6305-9103
LST TO UTC: +07 MONTH: ALL HOURS: ALL

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YEAR	JAN	PRB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL
42		• • • • • • •	TRACE	1.18	.00	.00	.43	1.18	.21	.18	.00	.14	1.18*
43	.44	.10	.43	TRACE	TRACE	TRACE	.16	.49	1.10	.13	.00	.54	1.10
44	.28	.56	.40	.39	.65	.00	.24	.16	.65	.14	.43	.55	.65
45	.51	.08	.45	TRACE	.00	.00	-10	.28	TRACE	.53	.00	.36	.53
46	.45	.08*		.02	.00	.00	.30	.31	1.74	.26	1.10	.53	1.74*
47	TRACE	.49	TRACE	TRACE	.16	.00	.02	1.78	.97	.22	.15	.20	1.78
48	.00	.70	.08	.00	.00	TRACE	.55	•35	TRACE	.14	.00	.45	.70
49	.42	.02	.26	.29	TRACE	.40	.26	1.07	.35	.08	.34	.65	1.07
50	.27	.46	.07	.00	.02	TRACE	.39	.66	.21	.00	TRACE	TRACE	.66
51	1.14	.11	.33	.50	.04	.00	1.40	2.64	.12	.10	.52	.21	2.64
52	.65	.33	.38	.60	TRACE	.18	.20	.07	.70	.00	1.39	.33	1.39
53	.22	.41	.37	.02	TRACE	TRACE	1.75	.07	.00	TRACE	.19	.16	1.75
54	.35	.53	1.03	.07	.17	.01	.60	.62	1.47	.03	TRACE	.03	1.47
55	.69	.09	TRACE	TRACE	TRACE	.24	.88	1.36	.01	.03	.04	.31	1.36
56	.73	.22	.00	.07	TRACE	TRACE	.38	TRACE	TRACE	.12	.00	.02	.73
57	.47	.25	.29	.14	.22	.34	.37	.43	TRACE	.95	.03	.31	.95
58	TRACE	.93	.40	.22	TRACE	.15	.12	.14	1.60	.15	.21	-00	1.60
59	.22	.65	TRACE	.09	TRACE	.02	.20	1.19	.18	.83	.17	1.17	1.19
60	.94	.06	.22	TRACE	TRACE	TRACE	.67	.40	.17	.36	TRACE	.07	.94
61	.00*												-00*
63					TRACE	.00	.05	.41	.12	.63	.62	.06	.63*
64	.28	TRACE	.20	TRACE	TRACE	.00	.97	.30	1.22	.38	.65	.43	1.22
65	.47	.91	.46	.53	.22	.21	.09	.88	.12	*	-22*	.34*	.91*
66	.04*	.19*	.04*	TRACE*	TRACE*	.03*	-09*	.03*	.71*	.53*	TRACE*	.02*	.71*
67	.16*	•	.57*	TRACE*	TRACE*	TRACE*	.04*	.04*	.02*	.07*	.03*	.44*	.57*
68	.14*	.34*	TRACE*	TRACE*	TRACE*	*	.05*	.15*	*	.20*	.59*	.01*	.59*
69	.59*	.15*	.14*	.01*	.48	.00	.14	.30	.38	.13	.34	.26	.59*
70	TRACE	.22	1.03	.05	.00	.13	.14	.17	1.76	.56	.04	.19	1.76
71	.15	.13	TRACE	.30	TRACE	.00	.19	1.34	.88	.52	.03	.14	1.34
72	.00	TRACE	.00	.00	.02	.08	.29	.75	.12	1.35	.56	.70	1.35
73	.18	.61	.52	.02	.01	.05	.18	.14	.00	.00	.39	.00*	.61*
74	.64	TRACE	.73	TRACE	TRACE	.00	.95	.04	.14	.39	.05	.32*	.95*
75	.03	.88	.59	.31	TRACE	.00	.88	.05	.60	.05	1.06	.46	1.06
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OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

### EXTREME DAILY PRECIPITATION AMOUNTS IN INCHES FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 4203-6101,6305-9103 LST TO UTC: +07 MONTH: ALL BOURS: ALL

YEAR	JAN	PEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
76	.03	.78	.26	.92	.35	.22	.39	.78	.56	.32	.31	.66	.92
77	.26	TRACE	.18	.01	.15	.02	.06	.37	.64	- 32	.15	.69*	.69*
78	.64	1.53	1.02	.47	.04	.27	.95	.17	.01	.38	.67	2.36*	2.36*
79	.61	.15	.88	.13	.34	.01	.12	1.12	.02	.13	.42	.13	1.12
80	.43	.50	.61	.23	.26	TRACE	.36	.07	.26	.18	.00	.13	.61
81	.61	1.19	.77	.27	.08	.02	.46	.16	.10	.38	.91	.00*	1.19*
82	.52	.31	.60	TRACE	.06	.00	.39	1.08	.35	TRACE	.75	.77*	1.08*
83	.47	.37	1.28	.03	.00	.00	.26	1.00	1.53	1.11	.47	.49*	1.53*
84	.26	.00	.00	.83	.01	.53	.53	.57	1.19	.32	-50	.97	1.19
85	.24	.15	.19	.10	. 15	TRACE	.81	.03	1.69	.42	.63	.60	1.69
86	.01	.65	.83	TRACE	.02	.09	.93	.50	.34	2.24	.05	.66*	2.24*
87	.54	1.88	.06	.18	.17	. 17	.03	.62	.18	.16	1.06	.54	1.88
88	.57	.29	.05	.91	.00	.03	.17	.71	.00	1.40	.54	.17	1.40
89	.86	.01	1.08	.00	.04	.00	.04	.03	.46	.17	.13	.27	1.08
90	.46	.52	.22	.48	.15	.18	.22	1.10	.60	.02	.53	.73	1.10
91	.34	.67	.43										.67*
GREATEST	1.14	1.88	1.28	1.18	.65	.53	1.75	2.64	1.76	2.24	1.39	2.36	2.64

THE GREATEST VALUE OF 2.64 OCCURRED ON 08/27/51

NOTE: "THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

TOTAL OBS 1319 1168 1310 1265 1352 1323 1353 1376 1309 1317 1270 1301 15663

## OPERATING LOCATION 'A' PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOWFALL IN INCHES USAFETAC, ASHEVILLE NC FROM SUMMARY OF DAY DATA

STATION NUMBER:	722786		N NAME:		S AFB AZ				PERIOD OF		: 4601-61 RS: ALL	.01,6305-6	509,6812-9
Amounts (Inches)	JAN	PEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	100.0	100.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	100.0
TRACE			.1									.2	.0
0.1-0.4			.1										.0
0.5-1.4													
1.5-2.4													
2.5-3.4													
3.5-4.4													
4.5-6.4													
6.5-10.4													
10.5-15.4													
15.5-25.4													
25.5-50.4													
OVER 50.4													
DAYS WITH											<b> </b>		
MEAS AMTS			.1										.0
TOTAL NO. OF OBSERVATIONS	1225	1074	1177	1140	1224	1200	1223	1240	1183	1189	1141	1174	14190

OPERATING LOCATION 'A' USAFETAC, ASHEVILLE NC

### TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 4601-6101,6305-6509,6812-9103 MONTH: ALL HOURS: ALL LST TO UTC: +07 JUL AUG DEC ANNUAL JAN FEB MAR APR MAY JUN SEP OCT NOV YEAR .0 .0\* 46 .0 .0\* .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 47 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 48 ٠0 .0 ٠0 -0 .0 .0 .0 49 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 -0 ٠0 50 .0 .0 .0 ٠0 .0 .0 .0 .0 .0 .0 .0 .0 .0 51 .0 .0 .0 -0 .0 .0 ٠0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 52 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 -0 53 .0 .0 .0 .0 .0 ٠,0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 54 25 .0 .0 .0 .0 .0 .0 ٠0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 57 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 58 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 -0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 59 60 .0 .0 .0 .0 .0 .o .0 .0 .0 .0 .0 .0 .0 61 .0\* .0\* .0 .0\* .0 .0 .0 .0 .0 .0 .0 63 64 .0\* 65 68 .0\* .0\* .0 .0 .0 .0 .0 .0 .0 .0 .0 .0\* 69 . 0 . 0 ٠.0 ٠.0 .0 70 -0 .0 .0 -0 . 0 -0 .0 .0 .0 .0 71 .0 -0 ٠,0 -0 ٠.0 - 0 .0 .0 - 0 .0 .0 72 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0\* .0\* -0 .0 .0 73 .0 .0 .0 .0 .0 .0 .0 74 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0\* -0\* .0 .0 .2 .0 .0 .0 .0 .0 .2 75 . 0 .0 -0 .0 76 .0 .0 TRACE .0 .0 .0 .0 .0 .0 .0 .0 .0 TRACE .0\* 77 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 -0\* 78 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0\* .0\* .0 .0 .0 .0 79 .0 .0 .0 .0 .0 .0 .0 .0 .0 80 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

OPERATING LOCATION 'A' USAFETAC, ASHEVILLE NC

### TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 4601-6101,6305-6509,6812-9103 LST TO UTC: +07 MONTH: ALL HOURS: ALL

			. 10 010	,					.~		100101		
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NON	DEC	ANNUAL
81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*
82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	•0*
83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*
84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*
87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
88	.0	.0	.0	.0	.0	.0	.0	-0	.0	.0	.0	.0	.0
89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90	.0	.0	.0	.0	.0	.0	-0	.0	.0	.0	.0	TRACE	TRACE
91	.0	.0	.0										.0*
•••••				•••••	•••••				••••	•••••	• • • • • • •		
LEAST	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
REATEST	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.2
MEAN	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.0
<b>EDIAN</b>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<b>5</b> 0	.000	.000	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.038

THE GREATEST VALUE OF .2 OCCURRED ON 03/75

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A' USAFETAC, ASHEVILLE NC

### EXTREME DAILY SNOWFALL AMOUNTS IN INCHES FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 4601-6101,6305-6509,6812-9103

		LS	T TO UTC:	+07					MONTH:	ALL H	OURS: AL	<b>L</b>	
YBAR	JAN	PEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	oct	NOV	DEC	ANNUA
46	.0	.0*	• • • • • • • • • • • • • • • • • • • •	.0	.0	.0	.0	.0	.0	.0	_0	.0	.0*
47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61	.0*												.0*
63					.0	.0	.0	.0	.0	.0	.0	.0	.0*
64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65	.0	.0	.0	.0	.0	.0	.0	.0	.0				.0*
68												.0*	.0*
69	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0*
70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*
74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*
75	.0	.0	.2	.0	.0	.0	.0	.0	.0	-0	.0	.0	.2
76	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*
78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*
79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

OPERATING LOCATION 'A'

### EXTREME DAILY SNOWFALL AMOUNTS IN INCHES

USAFETAC, ASHEVILLE NC FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ

TATION NOTINE	K: 12216		r to utc:		AMS AFD	AL.			MONTH:		HOURS:		05-6509,6812-
EAR	jan	FKB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*
82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*
83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*
84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*
87	.0	.0	.0	.0	.0	.0	-0	.0	.0	.0	.0	.0	-0
88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
91	.0	.0	.0										.0*
	• • • • • • • • •		• • • • • • • •	• • • • • • •		•••••		•••••	•••••	•••••		• • • • • • • • • • • • • • • • • • • •	
eatest	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.2
1													

THE GREATEST VALUE OF .2 OCCURRED ON 03/26/75

NOTE: "THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

PERIOD OF RECORD: 4601-6101,6305-6509,6812-9103

# OPERATING LOCATION 'A' PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOW DEPTH IN INCHES USAFETAC, ASHEVILLE NC FROM SUMMARY OF DAY DATA

STATION NUMBER:	722786		ON NAME: O UTC: +0		S AFB AZ				ERIOD OF		4203-91 S: ALL	.03	
AMOUNTS (INCHES)	JAN	PEB	MAR	APR	МАҮ	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NOME	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TRACE													
1													
2													
3													
4-6													
7-12													
13-24													
25-36													
37~48													
49-60													
61-120													
OVER 120													
•••••	•••••	• • • • • • • •	•••••	•••••	• • • • • • • • •	•••••	•••••	• • • • • • • • • •	•••••	•••••	• • • • • • • •	•••••	•••••
Days with Mras amts													
TOTAL NO. OF OBSERVATIONS	1475	1328	1504	1449	1490	1459	1487	1512	1438	1491	1421	1438	17492

OPERATING LOCATION 'A'
USAPETAC, ASHEVILLE NC

### EXTREME DAILY SNOW DEPTH AMOUNTS IN INCHES FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 42C3-9103 LST TO UTC: +07 MONTH: ALL HOURS: ALL

		LST	TO UTC:	+07					MONTH:	ALL H	OURS: AL	<b>L</b>	
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
42		•••••	0	0	0	0	0	0	0	0	0	0	0*
43	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	O	o	0	0
46	0	0*		0	0	0	0	0	0	0	o	0	0*
47	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	o	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0	o	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
61	0*	0*	0*	0*	0*	0*	0*	0	0*	0*	0*	0*	0*
62	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
63	0*	0*	0*	0*	0	0	0	0	0	0	0	0	0*
64	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0*	0	0	0	0	0	0	0	0	0	0	0*
68	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0*	0	0	0	0	0	0	0	0	0*
70	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0
73	) 0	0	0	0	0	0	0	0	0	0	0	0*	0*
74	0	0	0	0	0	0	0	0	0	0	0	0*	0*
75	0	0	0	0	0	0	0	0	0	0	0	0	0

OPERATING LOCATION 'A' USAFETAC, ASHEVILLE NC

## EXTREME DAILY SNOW DEPTH AMOUNTS IN INCHES

PERIOD OF RECORD: 4203-9103

FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ

		LST	TO UTC:	+07					HONTH:	ALL	HOURS: A	rr 	
YEAR	JAN	PEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOA.	DEC	ANNUAL
76	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0*	0*
78	0	0	0	0	0	0	0	0	0	0	0	0*	0*
79	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0	0	0	0	0*	0*
82	0	0	0	0	0	0	0	0	0	0	0	0*	0*
83	0	0	0	0	0	0	0	0	0	0	0	0*	0*
84	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0	0	0	0*	0*
87	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0
91	o	0	0										0*
GREATEST	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
TOTAL OBS	1475	1328	1504	1449	1490	1459	1487	1512	1438	1491	1421	1438	17492

THE GREATEST VALUE OF 0 OCCURRED ON 03/01/42

NOTE: "THE VALUE IS BASED ON A MONTE WITE LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTE

PPPPP	PPP	AA	<b>LAAA</b>	RRRR	RRRR	TETTTTTT	cec	ccc
PPPPP	PPPP	AAAA	AAAA	RRRR	RRRRR	THEFT	cccc	cccc
PP	PP	AA	λA	RR	RR	TT	cc	CC
PP	PP	AA	AA	RR	RR	TT	CC	
PPPPP	PPPP	AA	AA	RRRR	RRRRR	TT	cc	
PPPPP	PPP	AAAAA	AAAAA	RRRR	RRRR	TT	CC	
PP		AAAAA	AAAAA	RR	RR	TT	CC	
PP		AA	AA	RR	RR	TT	CC	CC
PP		λλ	λλ	RR	RR	TT	cccc	cccc
PP		ልእ	λλ	RR	RR	TT	ccc	ccc

#### PART C

#### SURFACE WIND SUMMARIES

#### PEAR WINDS.

THESE TABLES ARE CREATED FROM SUMMARY OF DAY DATA. SPEEDS ARE IN KNOTS.

DIRECTIONS ARE TO 16 COMPASS POINTS FROM THE BEGINNING OF PERIOD OF RECORD

THROUGH JUNE 1968, BUT IN JULY 1968, ALL STATIONS EXCEPT THOSE OF THE NATIONAL

WEATHER SERVICE STARTED RECORDING DIRECTIONS IN TENS OF DEGREES. DATA

IS SUMMARIZED BY MONTH FOR EACH YEAR FOR THE ENTIRE PERIOD OF RECORD

AVAILABLE. GIVEN: THE GREATEST MONTHLY VALUE FOR ALL YEARS COMBINED, THE

GREATEST YEARLY VALUE FOR ALL YEARS COMBINED, AND THE DATE OF THE ABSOLUTE

PEAK WIND RECORDED FOR THE ENTIRE PERIOD OF RECORD. AN ASTERISK (\*) INDICATES

A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN

ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

#### PEAK WINDS--PERCENT OCCURRENCE PREQUENCY.

ALSO FROM SUMMARY OF DAY DATA. DATA IS SUMMARIZED BY MONTH, FOR ALL YEARS COMBINED, FOR ELEVEN WIND SPEED GROUPS. THE 1-4 KNOT SPEED GROUP INCLUDES CALM WINDS. IF THE PEAK WIND IS REPORTED FOR A PARTICULAR DAY AS "CALM," THAT COUNT GOES INTO THE "1-4 KNOT" CATEGORY. TABLES INCLUDE MEANS, MEDIANS, AND TOTAL OBSERVATION COUNTS. THE VALUES IN THIS SUMMARY ACCOUNT FOR A PEAK WIND BEING RECORDED FOR EACH DAY OF EACH MONTH.

WIND DIRECTION VS WIND SPEED--PERCENT OCCURRENCE FREQUENCY.
THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS. THEY SUMMARIZE
THE DATA AS FOLLOWS:

- BY BIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

THESE TABLES GIVE A BIVARIATE DISTRIBUTION OF THE PERCENT OCCURRENCE FREQUENCY (POF) FOR ELEVEN WIND SPEED GROUPS VERSUS TWELVE WIND DIRECTION SECTORS GIVEN IN 30 DEGREE INCREMENTS. "CALM" AND "VARIABLE" WINDS ARE GIVEN SEPARATELY. CARDINAL WIND DIRECTIONS (N,E,S,W) APPEAR FOR REFERENCE. TOTAL PERCENTAGES, MEANS, AND MEDIANS FOR EACH SECTOR, ALONG WITH TOTAL OBSERVATION COUNTS, ARE PRINTED BELOW EACH SUMMARY.

ALSO PROVIDED: A BIVARIATE DISTRIBUTION OF WIND DIRECTION VERSUS WIND SPEED FOR SPECIFIED CEILING/VISIBILITY CONDITIONS. THESE CONDITIONS ARE:

WHEN THE VISIBILITY IS GREATER THAN OR EQUAL TO 1/2 MILES (0800 METERS)
THE CEILING MUST BE GREATER THAN OR EQUAL TO 200 FEET BUT LESS THAN 1500 FEET.
IF THIS CONDITION IS NOT MET, THEN THE FOLLOWING CONDITION IS TESTED:
WHEN THE CEILING IS GREATER THAN OR EQUAL TO 200 FEET, THE VISIBILITY MUST
BE GREATER THAN OR EQUAL TO 1/2 (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS).

CONVERSION: 1 KNOT = .514791 METERS PER SECOND

C - 1 - 2

OPERATING LOCATION 'A'
USAFETAC, ASSEVILLE NC

### PEAK SURFACE WINDS IN KNOTS FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 4601-6103,6305-9103 LST TO UTC: +07 MONTH: ALL BOURS: ALL

		I	ST TO UI	C: +07							MONT	H: ALL	BOURS:	ALL	
YEAR	JAN	PEB	MAR	API		IAY	JUN	JUL	A	JG	SEP	oct	NOV	DEC	ANN
		• • • • • • • •	• • • • • • •		•••••	•••••	••••	•••••	• • • • • • •	• • • • •	••••	• • • • • • •	• • • • • • •	• • • • • • • • •	
46	ESE 32	NW *36		SE 42			*	*	*		*	*	*	NE 24	SE *42
47	IW 30	WSW 31						SSE 40			36	S 23	S 24	SSE 35	ESE 42
48	SW 24	MNW 36	W 29	WNW 34		22 E	41	SSE 47			E 42	ESE 32	NNE 26	NW *27	ENE*49
49 50	8W *34 WSW*25	SW 19 ESE 23	WSW 46 WNW*35	ENE 31		36 NB 27 S	37 28	B 35			W 45	SSW 31 SE *26	NW 23 NNE 31	S 33 W 23	WSW*46
50	#S₩~23	BDB 43	WWW-35	WNW 20	BOW	21 3	26	ENE 35	ь, .	o nn	E*38	SK -20	1C 3NN	W 23	NNE*38
51	WNW*26	ESE 26	SW 31	W 35	W	28 W	23	SW 34	B :	35 SE	17	SW 26	E 28	S 31	W #35
52	₩ 40	W 24	SW 32	SW 42	MMM	28 S	31	SE 45	NE 3	38 SS	E 37	SSW 11	S 27	S 22	SE 45
53	NW 29	W 32	SW 28	SSW 34	WNW	29 SW	30	SSE 40	E 4	12 SS	E 33	SSE 36	ESE 39	WNW 51	WNW 51
54	ESE 30	B 28	SSW 40	SSW 38	S	44 SE	37	SSE 54	SE S	51 <b>S</b> S	E 45	SE 31	SSW 33	W 33	SSE 54
55	ESE 31	WNW 4C	W 36	W 40	) SSW	33 SE	29	SB 54	B :	50 SS	B 34	NE 29	NNE 31	WNW 35	SE 54
56	100W 30	WNW 32	WIW 40	8SE 39	SSW	30 S	29	ESE 40	ESE 4	40 WS	W 34	SSE 33	NW 26	ENE 26	WNW 40
57	88B 25	SE 38	SE 38	N 31	SE	39 SE	38	SE 50	S :	34 SE	*23	ESE 30	ENE*29	ESE 20	SE *50
58	WNW 28	NW 35	SSW 32	8SE 37	NNE	35 WN	W 27	ESE 23	SSE !	50 W	64	E 25	SSE 30	NE 16	W 64
59	WWW 24	SW 41	ESE 30	N 34	MME	33 S	32	NNW 51	E :	50 ES	B 20	ME 33	ESE 23	SE 36	NNW 51
60	NW 20	W 32	SSW 24	S 35	WSW	27 EN	B 30	B 43	SSE !	51 W	37	WNW 30	WSW 32	ENE 23	SSE 51
61	NE *18	N *27	SW *29												SW *29
63					ESE	25 SW	33	MB 35	ENE 4	42 N	44	WSW 33	SW 28	SSW 25	N *44
64	SSE 28	N 31	S 35	SSE 34	WHW	29 B	44	NB 39	n 4	O SE	41	S 33	WSW 32	WSW 31	E 44
65	WNW 32	SW 38	8SW 35	SW 37	SW	35 SS	W 43	NNE 39	<b>S</b> 3	33 S	34	SSW*27	WNW*22	SE 30	SSW*43
66	B 28	SW 27	W 34	8W 40	SSW	30 SS	W 27	B 29	8 4	19 NN	W 43	W 28	s 30	s *25	s *49
67	8 *27	NNB 30	WW 29	S 33	S	33 S	31	SE *46	E 4	18 SE	31	ENE 32	SSW 38	S *40	E *48
68	NNB 32	ESE 21	NW 27	SE 31			W 35	07/ 37	04/ 5	57 20	/ 35	24/ 40	24/*31	28/ 30	04/*57
69	30/ 35	27/ 42	21/41				/ 34	21/ 37			/ 54	15/*27	19/*36		30/*54
70	01/31	08/ 41	19/ 39	29/ 36	12/	33 04	/ 46	26/ 58	06/ 7	71 16	/ 47	10/46	09/ 29	19/ 30	06/ 71
71	25/ 25	29/ 46	29/ 38	22/ 33	03/	44 22	/ 25	15/ 47	11/ 6	51 14	/ 60	23/ 38	11/ 24	24/ 28	11/ 61
72	30/ 24	36/ 22	25/ 21	29/ 31	36/	26 16	/ 31	34/ 37	06/ 4	19 15	/ 29	17/ 28	28/ 33	20/ 38	06/ 49
73	24/ 28	20/ 28	22/ 32	28/ 34	36/	32 36	/ 30	09/ 34	22/ 3	33 27	/ 20	18/ 25	27/ 20	09/*20	28/*34
74	19/ 37	32/ 37	20/ 23			33 20		22/ 47				15/ 22	24/ 20		22/*47
75	07/ 26	28/ 32	29/ 33	33/ 30	22/	37 22	/ 28	22/ 38	11/ 3	34 33	/ 34	12/ 39	19/ 37	27/ 25	12/ 39
76	36/ 31	20/ 30	26/ 38	19/ 43	17/	48 12	/ 42	04/ 42	07/	<b>1</b> 5 03	/ 38	15/ 34	08/ 24	09/ 23	17/ 48
77	26/ 25	29/ 30	29/ 34	21/ 31	18/	36 27	/ 50	12/ 36	29/ 4	10 10	/ 34	19/ 27	33/ 24	08/*26	27/*50
78	29/ 35	21/ 31	19/ 33	20/ 29	24/	40 11	/ 39	15/ 70	33/ 5	53 20	/ 25	21/ 37	17/ 32	31/*24	15/*70
79	31/ 34	17/ 28	25/ 38	01/40	20/	37 13	/ 33	14/ 32	18/ 3	37 33	/ 48	01/ 35	22/ 30	08/ 22	33/ 48
60	18/ 37	20/ 40	32/ 40	29/ 42	20/	38 13	/ 74	12/ 43	03/ 4	12 06	/ 41	23/ 38	30/ 30	08/ 25	13/ 74

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NO

#### PEAK SURFACE WINDS IN KNOTS FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 4601-6103,6305-9103

LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	PBB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANN
81	10/ 23	18/ 31	21/ 43	21/ 40	17/ 45	07/ 41	21/ 37	05/ 46	34/ 33	22/ 30	09/*24	26/*25	05/*46
82	26/ 33	36/ 31	28/ 30	22/ 31	22/ 26	24/ 26	12/ 46	21/ 43	10/ 29	22/ 18	17/ 50	24/*32	17/*50
83	27/ 33	22/ 32	28/ 32	27/ 35	30/ 28	23/ 27	10/ 32	15/ 70	17/ 42	12/ 32	31/ 30	23/*17	15/*70
84	07/ 23	27/ 29	21/ 29	24/ 30	10/ 59	17/ 36	12/ 43	03/54	13/*29	25/ 35	11/ 21	28/ 26	10/*59
65	11/ 24	12/ 30	30/ 32	26/ 30	18/ 30	24/ 25	10/ 40	07/ 36	27/ 40	18/ 35	21/ 39	09/ 15	10/ 40
86	10/ 25	30/ 24	12/ 32	27/ 30	32/ 31	36/ 42	12/ 34	15/ 42	22/ 38	22/ 30	21/ 28	35/*20	36/*42
87	36/ 36	18/ 36	28/ 29	16/ 34	14/ 42	14/ 36	02/ 30	06/ 40	11/ 33	12/ 28	15/ 42	29/ 24	14/ 42
88	21/ 44	09/ 30	36/ 27	13/ 30	22/ 41	35/ 33	36/ 41	33/ 48	13/ 28	31/ 45	22/ 30	07/*31	33/*48
89	36/ 25	19/ 25	25/ 32	24/ 26	18/ 30	18/ 23	19/ 42	10/ 40	09/ 29	28/ 26	02/ 32	09/ 22	19/ 42
90	19/ 30	29/ 28	25/ 32	18/ 28	31/ 29	14/ 38	10/ 51	11/ 56	10/ 47	21/ 21	20/ 35	30/ 26	11/ 56
91	06/ 26	34/ 38	19/ 36										34/*38

GREATEST 21/44 29/46 WSW 46 19/43 10/59 13/74 15/70 06/71 W 64 10/46 17/50 WNW 51 13/74

TOTAL OBS 1296 1201 1321 1255 1282 1256 1273 1299 1190 1253 1196 1228 15050

THE PEAK WIND OF 74 FROM 13/ OCCURRED ON 06/29/80

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF DATA AVAILABLE FOR THE MONTH
\$THE VALUE IS 100 OR GREATER WITH LESS THAN 90% OF DATA AVAILABLE FOR THE MONTH

C - 2 - 1B

OPERATING LOCATION 'A' USAFETAC, ASSEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE OF DAILY PEAK WINDS FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 4601-6103,6305-9103 LST TO UTC: +07 MONTH: ALL BOURS: ALL

			DI 10 01	c. ·o,					THOME		noons. A	ши		
	 	• • • • • • •		• • • • • • • •	WII	ND SPEEDS	S IN KNO	ots	• • • • • • • •	• • • • • • •		MEAN	MEDIAN	TOTAL
HIWOM	CALM-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	WIND	WIND	OBS
JAN	1.4	38.2	36.6	12.5	7.2	2.5	1.1	.5	.2	.0	.0	12.0	10.0	1296
FEB	.3	25.9	41.7	15.9	8.3	4.2	2.1	1.1	.5	.0	.0	13.7	11.0	1201
MAR	.2	13.6	42.8	18.8	12.6	6.7	3.4	1.3	.5	.0	.0	15.6	13.0	1321
APR	.0	2.8	39.0	28.8	14.6	8.3	4.9	1.0	.7	.0	.0	17.3	16.0	1255
MAY	.0	.9	30.8	33.5	19.7	9.1	3.7	1.4	.7	.1	.0	18.3	17.0	1282
JUN	.0	.8	33.8	37.0	15.7	7.4	3.1	1.2	.8	.1	.1	17.7	16.0	1256
JUL	.0	1.2	28.0	28.8	14.8	10.8	7.9	4.2	3.4	.8	.1	20.4	18.0	1273
AUG	-0	2.7	34.9	25.5	13.5	8.9	6.2	4.2	3.2	.8	.2	19.5	16.0	1299
SEP	.1	8.7	41.4	23.1	13.7	5.9	3.7	1.7	1.4	.3	.0	16.7	14.0	1190
oct	1.1	21.9	43.5	15.9	10.0	4.2	2.2	1.0	.3	.0	.0	13.9	12.0	1253
NOV	.7	36.6	34.5	14.4	7.9	3.2	2.0	.5	.1	.1	.0	12.6	11.0	1196
DEC	2.2	43.2	32.7	11.0	7.2	2.1	1.1	.5	.1	.1	.0	11.6	10.0	1228
ANNUAL	.5	16.2	36.6	22.2	12.1	6.1	3.5	1.5	1.0	.2	.0	15.8	14.0	15050

PERATING LOCATION "A" SAFETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

TATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

LST TO UTC: + 7

PERIOD OF RECORD: APR 81 - MAR 91
MONTH: JAN HOURS: 03-05

DIRECTION (DEGREES)  1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN (DEGREES)  1) 350-010 1.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .				1 10 01	,					- FANTE	· UAN	HOOK	3. UJ-U.	•	
CDEGREES						WIND S	PEED IN	KNOTS						• • • • • •	• • • • • • •
020-040       2.0       1.5       .7       4.2       5.1       5.0         050-070       9.4       1.5       10.8       3.3       3.0         \$)       080-100       20.4       7.9       28.3       3.8       4.0         110-130       13.5       6.4       .5       20.4       4.2       4.0         140-160       3.4       .5       3.9       3.1       2.5         3)       170-190       3.0       .2       3.2       2.8       2.0         200-220       1.7       .7       .2       2.7       5.3       4.0         230-250       .2       .2       3.0       3.0         290-310       1.2       1.2       3.0       3.0         320-340       1.5       .2       1.7       3.0       3.0         VARIABLE         CALM       ///////////////////////////////////		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
050-070 9.4 1.5 10.8 3.3 3.0 \$\bar{8}\$ 080-100 20.4 7.9 28.3 3.8 4.0 \$\bar{110-130}\$ 13.5 6.4 .5 20.4 4.2 4.0 \$\bar{140-160}\$ 3.4 .5 3.9 3.1 2.5 \$\bar{9}\$ 3.0 2.2 3.0 3.0 \$\bar{200-220}\$ 1.7 .7 .2 2.7 5.3 4.0 \$\bar{230-250}\$ .2 2.7 5.3 4.0 \$\bar{9}\$ 260-280 .5 .2 3.0 3.0 \$\bar{9}\$ 260-280 1.5 .2 1.2 3.0 3.0 \$\bar{9}\$ 290-310 1.2 1.2 3.0 3.0 \$\bar{9}\$ 20-340 1.5 .2 1.7 3.0 3.0 \$\bar{9}\$ 20-340 1.5 .2 1.7 3.0 3.0 \$\bar{9}\$ 20-340 1.5 .2 1.7 3.0 \$\bar{9}\$ 20-340 1.5 .2 1.7 \$\bar{9}\$ 3.0 3.0 \$\bar{9}\$ 3.0 \$\bar	N) 350-010	1.5	.5	.5		•••••	• • • • • • •		******	•••••		•••••	2.5	4.5	3.0
E) 080-100       20.4       7.9       28.3       3.8       4.0         110-130       13.5       6.4       .5       20.4       4.2       4.0         140-160       3.4       .5       3.9       3.1       2.5         3) 170-190       3.0       .2       3.2       2.8       2.0         200-220       1.7       .7       .2       2.7       5.3       4.0         230-250       .2       .2       3.0       3.0         4) 260-280       .5       .2       .7       3.7       3.0         320-340       1.2       .2       1.2       3.0       3.0         VARIABLE         CALM       ///////////////////////////////////	020-040	2.0	1.5	.7									4.2	5.1	5.0
110-130	050-070	9.4	1.5										10.8	3.3	3.0
140-160       3.4       .5         3) 170-190       3.0       .2         200-220       1.7       .7       .2         230-250       .2       .2       3.0       3.0         4) 260-280       .5       .2       .7       3.7       3.0         290-310       1.2       1.2       3.0       3.0         320-340       1.5       .2       1.7       3.0       3.0     VARIABLE  CALM  ///////////////////////////////////	E) 080-100	20.4	7.9										28.3	3.8	4.0
3) 170-190 3.0 .2 3.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	110-130	13.5	6.4	.5									20.4	4.2	4.0
200-220	140-160	3.4	.5										3.9	3.1	2.5
230-250 .2 .2 3.0 3.0  **) 260-280 .5 .2 .7 3.7 3.0  290-310 1.2 1.2 3.0 3.0  320-340 1.5 .2 1.7 3.0 3.0  VARIABLE  CALM  ///////////////////////////////////	3) 170-190	3.0		.2									3.2	2.8	2.0
#) 260-280	200-220	1.7	.7	.2									2.7	5.3	4.0
290-310 1.2 1.2 3.0 3.0 3.0 320-340 1.5 .2 1.7 3.0 3.0 VARIABLE CALM ////////////////////////////////////	230-250	.2											.2	3.0	3.0
320-340 1.5 .2 1.7 3.0 3.0  VARIABLE  CALM  ///////////////////////////////////	#) 260-280	.5	.2										.7	3.7	3.0
VARIABLE  CALM ////////////////////////////////////	290-310	1.2											1.2	3.0	3.0
CALM ////////////////////////////////////	320-340	1.5	.2										1.7	3.0	3.0
CALM ////////////////////////////////////	VADTADID	! 	• • • • • •	• • • • • • •	• • • • • •		•••••	• • • • • • •	• • • • • • •	• • • • • • •		•••••	• • • • • • •		•••••
	AWLTWOOD														
TOTALS 58.3 19.4 2.1 100.0 3.1 4.0	CALM	///////	//////	//////	//////	//////	'//////	//////	///////	///////	//////	///////	20.0	//////	/////
1	TOTALS	58.3	19.4	2.1									100.0	3.1	4.0

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JAN HOURS: 06-08

		LS	T TO UI	:C: + 7					MONTE	: JAN	HOUR	S: 06-08		
		•••••	• • • • • • •	•••••	WIND S	SPEED IN	KNOTS			•••••	• • • • • • •	• • • • • • • •	•••••	
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19				35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	6	1	3	• • • • • •		• • • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	1.9	6.5	4.5
(N) 350-010	1.0	.0	• •									1.9	0.5	4.5
020-040	2.5	.6	.7									3.8	5.1	4.0
050 070														
050-070	6.5	1.3										7.8	3.3	3.0
(E) 080-100	22.9	4.6										27.5	3.3	3.0
110 130														
110-130	17.9	6.4										24.3	3.9	4.0
140-160	4.2	1.1										5.3	3.3	3.0
(S) 170-190	1.5	.3										1.0	4.0	2.0
(5) 1/0~190	1.5	.3		.1								1.9	4.0	3.0
200-220	.7	.3	.1									1.1	3.8	2.5
210 250													٠.	2.5
230-250	.7	.1	.1	.1								1.1	5.4	2.5
(W) 260-280	.3	.1										.4	3.7	3.0
290-310	.7	.1										.8	3.2	2.0
240-310	) ·'	•1										.0	3.2	2.0
320-340	1.1											1.1	2.8	2.5
	ł													
VARIABLE					• • • • • •					• • • • • • •	• • • • • • •	••••••	•••••	•••••
CALM	11111111	//////	7/////	'''''	'/////	////////	'//////	'//////	'//////	///////	7//////	22.8	/////	/////
TOTALS	60.0	15.5	1.0	.5								100.0	2.9	3.0
	•													

TOTAL NUMBER OF OBSERVATIONS 719

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OPERATING LOCATION "A" USAFETAC, ASSEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7
MONTH: JAN ROURS: 09-11

		LS	T TO UT	C: + 7					MONTE	: JAN	HOUR	<b>s:</b> 09-1:	ı	
	• • • • • • • •	•••••		• • • • • •	WIND S	PEED IN	KNOTS	• • • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GE 65	TOTAL	mean Wind	MEDIAN WIND
(N) 350-010	1.1	.2	.2	.1		•••••	• • • • • •	•••••	•••••	•••••	•••••	1.7	5.2	3.0
020-040	1.7	.7	.3	.2								2.9	5.5	4.0
050-070	2.6	.2	.1									2.9	3.3	2.0
(B) 080-100	6.8	2.8	.4		.1							10.2	4.2	3.0
110-130	11.6	7.7	1.0	.1								20.4	4.6	4.0
140-160	6.0	2.0	.4		.1							8.6	4.3	4.0
(8) 170-190	3.6	.1	.4									4.1	3.4	2.0
200-220	2.9	.7	.1	.1								3.8	3.7	2.0
230-250	2.7	.2		.2		•						3.1	3.5	2.0
(W) 260-280	2.0	.3										2.3	2.9	2.0
290-310	2.7	.4	.1									3.2	3.3	3.0
320-340	1.0	.3										1.3	3.4	2.5
VARIABLE	: 	•••••				•••••	•••••	• • • • • • •	•••••	•••••	•••••	•••••		
CAIM	////////	'/////	//////	///////	//////	///////	//////	//////	///////		///////	35.3	/////	/////
TOTALS	44.7	15.6	3.0	.7	.2							100.0	2.7	3.0

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: JAN HOURS: 12-14

••••••		• • • • • •	• • • • • • •	•••••	WIND S	PEED IN	KNOTS	•••••	•••••	•••••		• • • • • • •	•••••	•••••
Direction (Degrees)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.1	1.2	.9	.1	•••••	•••••	• • • • • •	•••••	•••••		• • • • • • •	5.4	5.1	3.5
020-040	1.5	.9	.6	.1								3.0	5.8	5.0
050-070	1.5	.4	.6									2.5	5.2	4.0
(E) 080-100	1.2	1.1	.8	.4								3.6	7.7	7.0
110-130	2.0	2.7	.6									5.2	5.4	5.0
140-160	3.1	1.7	.7	.1	.1							5.7	5.5	4.0
(8) 170-190	3.3	.9	-4	.2	.2							5.1	5.5	3.0
200-220	4.8	1.7	.7	.3	.1							7.6	5.2	4.0
230-250	5.2	2.0	.1	.1								7.5	3.7	3.0
(W) 260-280	5.5	1.6	.2									7.3	3.6	3.0
290-310	8.3	1.6										9.8	3.0	2.0
320-340	4.1	1.0	.2									5.4	3.5	3.0
VARIABLE	:   	•••••	•••••	•••••	•••••	•••••	• • • • • •	•••••	•••••		•••••	• • • • • • • •		•••••
CALM	11111111	//////	//////	//////	//////	///////	//////	//////	///////	//////	//////	32.0	/////	/////
TOTALS	43.6	16.8	5.8	1.3	.4							100.0	3.1	4.0

OPERATING LOCATION "A" USAPETAC, ASSEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JAN HOURS: 15-17

		100	1 10 01						MONTE	ii JAN	HOUR	3: 13-17	,	
					WIND S	SPEED IN	KNOTS		•••••	•••••	•••••			
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GB 65	TOTAL %	MEAN WIND	median Wind
(N) 350-010	3.1	1.7	.8	• • • • • • •	•••••	• • • • • • •	•••••	•••••	•••••	•••••	•••••	5.5	4.7	4.0
020-040	1.5	.8	.8									3.1	5.8	4.5
050-070	1.2	.6	.9									2.7	6.7	6.0
(E) 080-100	1.4	1.9	1.2									4.5	6.6	7.0
110-130	1.5	1.3	.4									3.2	5.3	5.0
140-160	1.4	.5		.1								2.0	4.3	3.0
(8) 170-190	1.0	.9	-1		.1							2.2	5.8	6.0
200-220	2.4	1.3	.9	.3								4.9	5.9	4.5
230-250	5.9	4.1	.5		.3							10.8	5.0	4.0
(W) 260-280	10.4	4.9	.1	.1	.1							15.6	4.2	4.0
290-310	11.3	3.6	.3									15.1	3.5	3.0
320-340	5.0	1.5	.5									7.0	3.8	2.0
VARIABLE	: 	• • • • • •				• • • • • • •	•••••	•••••	•••••	• • • • • •	•••••	• • • • • • •		•••••
CALM	,,,,,,,	'/////	//////	//////	//////	///////	//////	///////	//////	//////	///////	23.4	/////	/////
TOTALS	46.1	23.1	6.5	.5	.5							100.0	3.6	4.0
			TYC	TAI. NIM	BER OF	ORSERVA	TIONS	781						

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JAN HOURS: 18-20 WIND SPEED IN KNOTS DIRECTION 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN 1-4 (DEGREES) WIND WIND (N) 350-010 3.1 2.5 .6 6.1 4.9 4.5 020-040 3.3 1.2 .2 4.6 3.9 3.0 050-070 5.4 2.5 7.9 4.0 4.0 (E) 080-100 4.4 .6 3.8 3.0 110-130 .4 1.5 .2 2.5 5.7 4.0 140-160 1.0 .2 .2 1.3 4.6 2.0 (8) 170-190 2.5 1.0 .2 3.6 4.3 2.0 200-220 1.5 .4 2.3 4.4 3.0 6.7 230-250 1.2 .2 .2 8.3 3.4 2.0 (W) 260-280 6.1 1.2 .8 8.1 3.8 2.0 290-310 4.6 1.0 6.1 4.4 3.0 320-340 4.6 1.0 5.6 3.6 4.0 VARIABLE CALM TOTALS 44.7 13.2 3.6 .4 .2 .2 100.0 2.5 3.0 TOTAL NUMBER OF OBSERVATIONS 521

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ LST TO UTC: + 7 PERIOD OF RECORD: APR 81 - MAR 91 MONTH: JAN HOURS: 21-23

										014.	2001	J. 21 23		
•••••		• • • • • •		•••••	WIND 8	SPEED IN	KNOTS	•••••					• • • • • •	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GB 65	TOTAL \$	MEAN WIND	MEDIAN WIND
(M) 350-010	2.7	5.4	•••••	******	•••••	•••••	•••••	•••••	•••••	•••••	•••••	8.1	4.7	5.0
020-040	2.7	2.7										5.4	6.0	6.0
050-070	10.8	5.4										16.2	4.0	3.5
(B) 080-100	16.2	2.7										18.9	3.1	3.0
110-130	2.7		2.7									5.4	9.0	9.0
140-160	2.7											2.7	2.0	2.0
(8) 170-190														
200-220	2.7	2.7										5.4	5.0	5.0
230-250		5.4										5.4	7.5	7.5
(W) 260-280		2.7										2.7	5.0	5.0
290-310														
320-340	:													
VARIABLE	: 	• • • • • •	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	• • • • • •	•••••	•••••
CALM	11111111	//////	//////	///////	//////	,,,,,,,	//////	///////	//////	///////	,,,,,,,	29.7	/////	/////
TOTALS	40.5	27.0	2.7									100.0	3.3	4.0

OPERATING LOCATION "A" USAPETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ LST TO UTC: + 7

PERIOD OF RECORD: APR 81 - MAR 91

MONTH: JAN HOURS: ALL

•••••	• • • • • • • • • • • • • • • • • • •	••••••		•••••		PEED IN		•••••	•••••	•••••	• • • • • •	• • • • • • •	•••••	•••••
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)	ŀ											*	WIND	WIND
(N) 350-010	2.2	1.1	.5	.1	• • • • • •	•••••	• • • • • •	•••••	•••••	•••••	• • • • • • •	3.9	5.0	4.0
020-040	2.0	.9	.5	.1								3.5	5.2	4.0
050-070	3.8	1.0	.3									5.1	3.9	3.0
(E) 080-100	8.5	2.8	.5	.1	.0							11.9	4.1	4.0
110-130	7.7	4.2	.5	.1								12.4	4.5	4.0
140-160	3.4	1.1	.3	.0	.0							4.8	4.3	4 0
(8) 170-190	2.5	.5	.2	.1	.1	.0						3.4	4.5	3.0
200-220	2.6	.9	.4	.1	.0							4.1	4.9	4.0
230-250	3.7	1.4	.2	.1	.1							5.5	4.2	3.0
(W) 260-280	4.3	1.5	.2	.0	.0							6.0	3.9	3.0
290-310	5.2	1.2	-1									6.5	3.4	3.0
320-340	2.9	.7	.1									3.7	3.5	3.0
VARIABLE	:   	• • • • • •	•••••	•••••	•••••	•••••	• • • • • •	••••••	••••••	•••••	• • • • • •	• • • • • • •	•••••	•••••
CALM	11111111	//////	//////	///////	//////	///////	//////	//////	///////	///////	//////	29.2	/////	/////
TOTALS	48.8	17.3	3.8	.7	.2							100.0	3.0	3.0

DBAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS FIRTION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JAN HOURS: ALL CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GR 1/2 MILE (0800 METERS). AND/OR VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET. WIND SPEED IN KNOTS DIRECTION | 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN (DEGREES) % WIND WIND (N) 350-010 020-040 050-070 2.6 2.6 6.0 6.0 (E) 080-100 2.6 2.6 4.5 4.5 110-130 2.6 2.6 5.0 5.0 140-160 7.9 3.3 7.9 4.0 (8) 170-190 5.3 21.5 21.5 200-220 2.6 2.6 5.3 3.5 7.9 230-250 2.6 10.5 16.5 20.0 (W) 260-280 290-310 5.3 2.6 7.9 4.3 3.0 320-340 3.0 3.0 VARIABLE CALM 26.3 13.0 TOTALS 100.0 4.3 4.5 13.2 TOTAL NUMBER OF OBSERVATIONS 38

SPERATING LOCATION "A"

PERCENTAGE PREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED

OPERATING LOCATION "A" USAPETAC, ASHEVILLE NC

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91 MONTH: FEB HOURS: 03-05

LST TO UTC: + 7 WIND SPEED IN KNOTS 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN DIRECTION (DECREES) WIND WIND 8 ••••••••••• (N) 350-010 .5 1.0 .3 1.8 6.0 7.0 020-040 1.6 1.0 . 3 2.9 5.1 4.0 050-070 7.6 1.8 9.4 3.7 4.0 (E) 080-100 23.5 13.6 37.3 4.1 4.0 110-130 13.3 9.1 .3 22.7 4.4 4.0 140-160 2.9 1.0 .3 4.2 4.6 3.5 (S) 170-190 1.0 .3 .3 .3 7.3 1.8 4.0 200-220 .8 .5 .5 5.9 1.8 5.0 230-250 .3 .3 .5 6.0 6.0 .8 (W) 260-280 .3 1.0 3.8 2.0 290-310 1.0 .3 1.3 2.6 2.0 320-340 . 3 3.0 3.0 VARIABLE CALM TOTALS 53.6 29.2 1.7 .6 .3 100.0 3.7 4.0

PERATING LOCATION "A" SAPETAC, ASHEVILLE NO

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

TATION NUMBER: 722786 STATION NAME: WILLIAMS AFE/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

		LS	T TO UT	:: + 7					MONTE	i: FEB	HOUR	S: 06-08	3	
• • • • • • • • • • • • • • • • • • • •	• • • • • • • •		•••••	• • • • • •				• • • • • •	•••••		• • • • • • •		• • • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
		• • • • • • •	•••••	• • • • • •	•••••	• • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • • •
<b>H)</b> 350-010	.9	1.0	.1									2.1	5.4	5.5
020-040	1.8	.1	.1									2.1	2.9	2.0
050-070	6.1	.4										6.6	2.8	2.5
E) 080-100	22.7	7.9										30.6	3.8	4.0
110-130	19.3	10.8	.3									30.3	4.3	4.0
140-160	2.7	.6		.3								3.6	4.3	3.0
8) 170-190	1.0	.3			.1							1.5	4.9	4.0
200-220	.6	.3	.4	.1								1.5	7.4	7.0
230-250	.4	.1	.3									.9	5.7	4.5
W) 260-280	.4	.3										.7	3.8	4.0
290-310	.7											.7	2.8	3.0
320-340	.1											.1	4.0	4.0
VARIABLE	: 				•••••		• • • • • • •	•••••	•••••		•••••	• • • • • • •	• • • • • • •	
CALM	11111111	//////	///////	///////	//////	///////	//////	///////	//////	///////	///////	19.1	/////	/////
TOTALS	56.7	21.8	1.2	.4	.1							100.0	3.3	4.0
			TC	TAL NUM	Ber of	OBSERVA	TIONS	669						

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

		LS	T TO UI	C: + 7					MONTE	: FEB	HOUR	s: 09-11	L	
••••••		• • • • • •	• • • • • • •	•••••	WTWO C	PEED IN		• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •
Direction (Degrees)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(W) 350-010	1.3	.7	.1	•••••	•••••	•••••	•••••	•••••	* • • • • •	•••••	•••••	2.2	4.1	3.0
020-040	.7	.6	.5									1.8	6.7	8.0
050-070	1.8	.7		.1								2.7	3.9	2.5
(E) 080-100	5.4	2.4	.6	.1	.1							8.7	4.6	3.5
110-130	11.6	10.3	1.4	.1								23.4	5.1	5.0
140-160	7.2	3.5	.5									11.2	4.0	4.0
(8) 170-190	2.4	1.0	.2	.2	.2							4.1	5.9	4.0
200-220	2.3	.8	.2									3.4	4.4	3.5
230-250	2.4	.6	.1									3.1	3.7	3.0
(W) 260-280	2.4	1.3	.1									3.9	3.9	2.0
290-310	3.0	.6	.5	.1								4.2	4.3	2.0
320-340	1.2	.4										1.6	3.0	3.0
VARIABLE	! 	• • • • • •		•••••	•••••		*****	••••••		•••••	•••••	••••••		•••••
CALM	1111111	//////	///////	//////	///////	///////	///////	//////	//////	//////	///////	29.7	/////	/////
TOTALS	41.7	22.9	4.2	.6	.3							100.0	3.2	4.0

PERATING LOCATION "A" SAPETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

TATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: FEB HOURS: 12-14

WIND SPEED IN KNOTS  DIRECTION   1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTA (DEGREES)   %  N) 350-010   3.4 1.3 .2 5,4	WIN	O WIND
M) 350-010		3.0
· · · · · · · · · · · · · · · · · · ·	4.0	
020-040 1.8 .6 .4 .1 2.4		3.5
050-070 2.3 .2 .2	4.0	3.0
B) 080-100 2.3 2.4 1.6 .6 6.	7.!	5 7.0
110-130 2.8 3.4 .6 .2	6.6	5.0
140-160 4.3 1.8 .4 6.	4.:	2 3.0
8) 170-190 2.1 1.1 .7 3.	5.2	2 4.0
200-220 5.0 1.8 1.4 .1 .1 8.	5.5	5 4.0
230-250 5.0 2.3 1.0	4.0	5 4.0
W) 260-280 4.7 2.9 .8 .6 9.	5.:	4.0
290-310 5.7 2.5 .2 .4 8.4	4.2	2 3.0
320-340 3.6 1.3 .4 5	4.0	3.0
		•••••
VARIABLE		
CAIM ////////////////////////////////////	. ////	///////
TOTALS 43.0 21.6 7.9 2.0 .1 100.0	3.0	3 4.0

TOTAL NUMBER OF OBSERVATIONS 828

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MOR	NTH:	FEB	HOURS:	15-17
---------------------	------	-----	--------	-------

•••••	******	• • • • • •	• • • • • •	• • • • • •	WIND S	SPEED IN	KNOTS	•••••	• • • • • •	•••••	• • • • • • •	•••••		•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(M) 350-010	2.3	1.1	4	•••••	• • • • • •		•••••	•••••	• • • • • •	•••••	• • • • • • •	3.8	4.4	3.0
•													•••	•
020-040	2.2	.9	.1									3.2	4.1	4.0
050-070	2.0	.8	.5									3.4	4.6	4.0
(E) 080-100	2.3	2.2	.3	.3								5.0	5.4	5.0
110-130	2.3	1.8	.3									4.3	5.0	4.0
140-160	2.4	.3	.1									2.8	3.3	3.0
(8) 170-190	2.7	.3	.1	.3								3.4	4.1	3.0
200-220	3.6	1.8	.5	.5	.3							6.8	6.3	4.0
230-250	6.4	3.2	.9	.1	.1							10.8	5.0	4.0
(W) 260-280	9.2	5.8	.7	.4								16.1	4.8	4.0
290-310	8.6	3.6	.8	.4								13.5	4.8	4.0
320-340	5.4	3.1	.8									9.3	4.4	4.0
VARIABLE	:   	• • • • • •	• • • • • •	•••••	• • • • • •		• • • • • •	•••••		•••••	•••••	• • • • • •		•••••
	<b></b>					<i></i>								
CALM	///////	//////	//////	//////	//////	'''''	//////	7777777	'''''	'//////	'''''	17.6	//////	/////
TOTALS	49.4	24.9	5.5	2.0	.4							100.0	4.0	4.0
	TOTAL NUMBER OF OBSERVATIONS 740													

C - 4 - 14

PERATING LOCATION "A" SAPETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

	LST TO UTC: + 7							HONTH: FEB HOURS: 18-20							
,	• • • • • • • •	•••••	••••		WIND S	PEED IN	KNOTS	• • • • • •	•••••		•••••	• • • • • • •	• • • • • •	• • • • • • •	
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND	
(N) 350-010	4.7	1.0	.4	* * * * * * *	.2		•••••	•••••	•••••	•••••	•••••	6.2	4.4	3.0	
020-040	3.5	.8	.2									4.5	3.9	2.0	
050-070	3.5	1.0										4.5	3.3	3.0	
(E) 080-100	3.7	2.9			.2							6.8	4.9	4.0	
110-130	2.7	1.0		.2								3.9	3.9	2.5	
140-160	1.7	1.2										2.9	4.3	4.0	
(8) 170-190	1.0	.6	.8									2.3	7.2	8.5	
200-220	2.5	.2	.2									2.9	2.9	2.0	
230-250	6.2	1.4	.6	.2								8.3	4.1	3.0	
(W) 260-280	9.7	2.3	-4									12.4	3.5	2.0	
290-310	9.3	1.0	.2									10.5	3.1	3.0	
320-340	4.9	1.0										5.8	3.2	2.0	
VARIABLE		•••••	•••••	• • • • • •	• • • • • •		•••••	• • • • • • •	•••••			• • • • • • •	•••••	• • • • • • •	
CALM	11111111	//////	//////	//////	//////	,,,,,,	//////	,,,,,,	//////	///////	,,,,,,,	28.9	/////	/////	
TOTALS	53.4	14.4	2.8	.4	.4							100.0	2.7	3.0	
			TO	TAL NUM	BER OF	OBSERVA	TIONS	515							

C - 4 - 15

# OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED USAFFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

CONTINUE MINIOUD. 722706 COMMITTON NAME. WILLTAMS AND /CHANDIND AV

STATION NUMBE	TON NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ LST TO UTC: + 7						\Z	PERIOD OF RECORD: APR 81 - MAR 91 MONTH: FEB HOURS: 21-23							
***********	********			•••••		SPEED IN	KNOTS	• • • • • • •				• • • • • • • •			
Direction (Degrees)	1-4	5-9	10-14	15-19				35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND	
	1			•••••		• • • • • • •	• • • • • •	• • • • • • •		• • • • • •	• • • • • • •				
(N) 350-010	2.4	1.2	2.4									5.9	6.2	6.0	
020-040	7.1											7.1	2.2	2.0	
050-070	9.4											9.4	2.5	2.5	
(E) 080-100	10.6	1.2										11.8	3.2	3.0	
110-130	14.1	1.2										15.3	3.5	3.0	
140-160	3.5											3.5	3.0	3.0	
(S) 170-190	2.4		1.2									3.5	5.3	2.0	
200-220	1.2	2.4										3.5	5.7	7.0	
230-250	1.2											1.2	2.0	2.0	
(W) 260-280	1.2											1.2	4.0	4.0	
290-310	2.4				1.2							3.5	8.3	2.0	
320-340	2.4											2.4	2.0	2.0	
VARIABLE						• • • • • • •	• • • • • •			•••••			•••••	•••••	
CALM	11111111	/////	///////	//////	///////	''''	//////	//////	///////	//////	///////	31.8	/////	//////	
TOTALS	57.9	6.0	3.6		1.2							100.0	2.6	3.0	
			TC	TAL NU	BER OF	OBSERVA	TIONS	85							

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: FEB HOURS: ALL WIND SPEED IN KNOTS DIRECTION 1 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN (DEGREES) % WIND WIND (N) 350-010 2.2 1.0 .3 .0 3.6 4.5 4.0 020-040 2.0 .6 .3 .0 2.9 4.4 4.0 050-070 3.6 .7 .1 .0 4.5 3.6 3.0 (E) 080-100 8.7 4.4 .5 .2 .0 13.8 4.5 4.0 110-130 8.4 5.9 .5 15.0 4.7 4.0 .1 140-160 1.5 .2 .1 5.6 4.1 3.0 (S) 170-190 1.9 .6 .3 .1 .1 3.0 5.5 4.0 200-220 2.7 1.0 .6 .1 .0 .0 4.5 5.5 4.0 230-250 3.6 .5 .0 .0 1.4 5.6 4.6 4.0 (W) 260-280 2.3 .4 .2 4.5 4.0 290-310 4.8 1.5 .3 .2 .0 6.8 4.2 3.0 320-340 2.7 1.0 . 2 4.0 3.9 3.0 VARIABLE CALM TOTALS 48.9 21.9 4.2 1.0 100.0 3.5 4.0

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: FEB HOURS: ALL CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS). AND/OR VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET. WIND SPEED IN KNOTS DIRECTION 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN (DEGREES) % WIND WIND (N) 350-010 020-040 050-070 (E) 080-100 12.5 12.5 8.0 8.0 110-130 25.0 25.0 3.0 3.0 140-160 (8) 170-190 12.5 12.5 200-220 25.0 24.0 22.5 230-250 (W) 260-280 290-310 12.5 12.5 4.0 4.0 320-340 VARIABLE CALM TOTALS 37.5 12.5 12.5 12.5 100.0 8.3 6.0 TOTAL NUMBER OF OBSERVATIONS

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NO

### PARCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAR HOURS: 03-05

	LST TO UTC: + 7							MONTH: MAR HOURS: 03-05						
	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •			•••••	• • • • • •	•••••	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		SPRED IN 25-29		35-39	40-49	50-64	GR 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	.2	•••••	•••••	•••••		•••••	•••••	•••••	•••••		1.1	3.8	3.0
020-040	.7	.7										1.3	3.8	4.0
050-070	6.7	2.0										8.7	3.3	3.0
(B) 080-100	23.0	10.5	.2									33.8	4.1	4.0
110-130	15.2	13.0										28.2	4.4	4.0
140-160	1.8	1.3	.4									3.6	5.0	4.5
(8) 170-190	2.0	.2	.4									2.7	4.7	4.0
200-220	1.3	.9	.7	.2								3.1	6.5	5.5
230-250	.9	2.0										2.9	5.4	6.0
(W) 260-280	1.1	.7										1.8	3.9	4.0
290-310	.2		.2									.4	7.0	7.0
320-340	1.1	.4										1.6	4.1	4.0
VARIABLE	i  I	• • • • • •	•••••	• • • • • • •		• • • • • • •		•••••				• • • • • • •		
* ANTICALIS														
CALM	///////	//////	//////	//////	//////	'//////	//////	'//////	//////	///////	//////	10.7	/////	//////
TOTALS	54.9	31.9	1.9	.2								100.0	3.8	4.0

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAR HOURS: 06-08

••••••	• • • • • • • •		•••••	•••••	WIND S	PEED IN	KNOTS	•••••	• • • • • •	• • • • • •		• • • • • • • •	• • • • •	•••••
Direction (Degrees)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	.3	• • • • • • •	•••••	•••••		• • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	1.2	3.1	2.0
020-040	1.5	.3										1.8	3.0	3.0
050-070	3.7	.5	.1									4.4	3.3	3.0
(B) 080-100	19.0	9.4										28.4	3.9	4.0
110-130	15.7	17.7	.5									33.9	4.9	5.0
140-160	3.7	2.7	.3									6.7	4.5	4.0
(S) 170-190	.9	1.4	.4									2.7	5.7	5.0
200-220	1.2	2.4	.4									4.0	6.0	6.0
230-250	.4	.9										1.3	5.3	5.0
(W) 260-280	.6	.4										1.0	5.1	4.0
290-310	.5	.8	.1									1.4	5.3	6.0
320-340	.8	.3										1.0	3.8	3.5
	 			• • • • • • •			• • • • • •		• • • • • • •			• • • • • • •		
VARIABLE														
CALM	////////	'/////	//////	//////	//////	'//////	//////	1111111	//////	//////	'//////	12.3	/////	/////
TOTALS	48.9	37.1	1.8									100.0	3.9	4.0

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAR HOURS: 09-11

													-	
•••••		• • • • • •	•••••	•••••	WIND S	SPEED IN	KNOTS	• • • • • • •	•••••	• • • • • • •	*****			
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	.3	.3	•••••	•••••		•••••		•••••	•••••	•••••	1.8	4.8	4.0
020-040	1.1	.6										1.7	3.9	4.0
050-070	2.6	.3										2.9	3.0	2.0
(E) 080-100	4.3	1.8	.6	.1								6.9	4.8	4.0
110-130	9.9	12.8	.5	.1								23.4	5.2	5.0
140-160	7.6	5.2	1.1		.1							13.9	4.8	4.0
(8) 170-190	3.2	1.3	.9	.4	.1							5.9	6.0	4.0
200-220	3.3	2.6	-2	.4								6.6	5.3	4.0
230-250	2.5	1.9	.6	.1								5.2	5.8	5.0
(W) 260-280	2.5	1.3	.6									4.4	4.8	4.0
290-310	2.7	1.1	.2	.1								4.1	4.6	3.0
320-340	1.6	.4	.4									2.5	4.6	4.0
VARIABLE	! 	• • • • • •	•••••		•••••	• • • • • • •	•••••	• • • • • •	•••••	•••••		•••••	• • • • • •	•••••
CALM	1111111	//////	,,,,,,,	///////	///////	///////	//////	///////	///////	///////	1111111	20.6	/////	111111
TOTALS	42.5	29.6	5.4	1.2	.2							100.0	4.0	4.0
			mo	mat www.	mnn on	0000000	m z com m	007						

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ LST TO UTC: + 7 PERIOD OF RECORD: APR 81 - MAR 91 MONTH: MAR HOURS: 12-14

		TIG	1 10 01	C:					PONIE	: PAN	HOUR	3. 12-14		
***********	•••••	• • • • • •		•••••	WIND S	PEED IN	KNOTS	•••••	•••••		•••••	• • • • • • •		••••••
Direction (Degrees)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GB 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.3	1.6	.2	•••••	• • • • • •	•••••		******	•••••		•••••	4.1	4.7	4.0
020-040	2.2	.5										2.7	3.0	2.0
050-070	.9	1.1										1.9	4.6	5.0
(E) 080-100	2.0	1.2	.5	.1								3.9	5.4	4.0
110-130	2.5	1.7	1.0	.4								5.6	6.4	5.0
140-160	າ.2	2.0	.8									5.0	5.3	5.0
(S) 170-190	4.3	2.2	.6	.4		.1						7.6	5.7	4.0
200-220	4.5	3.7	1.0	.4	.1							9.7	5.6	5.0
230-250	7.2	4.5	1.9	.3	.3							14.3	5.6	4.0
(W) 260-280	,.9	4.4	2.5	.3	.1							14.2	5.8	5.0
290-310	5.5	4.0	1.2	.2								10.9	5.2	4.0
320-340	8.د	1.0	.3									5.1	3.8	3.0
VARIABLE	! 	• • • • • •	•••••	•••••	•••••		• • • • • •	•••••		•••••	•••••	• • • • • • •	•••••	•••••
CALM	11:1111	//////	//////	//////	//////	///////	//////	//////	///////	//////	///////	15.1	/////	//////
TOTALS	41.3	27.9	10.0	2.1	.5	.1						100.0	4.6	4.0

......

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 HONTH: MAR HOURS: 15-17

			1 10 01						HONTE	i. Pink	HOOK	o; 13-1	,	
					WIND S	DEED IN	KNOTS		••••••	• • • • • • •		• • • • • • •	• • • • • •	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(M) 350-010	2.4	1.2	.1	.1	•••••	•••••	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	•••••	3.8	4.5	4.0
020-040	1.4	.5		.1								2.0	4.2	3.0
050-070	1.5	.4										1.9	3.4	3.5
(E) 080-100	.9	1.7	.7									3.3	6.7	6.5
110-130	1.3	1.8	.2									3.3	5.5	5.5
140-160	1.3	.5	.2									2.0	4.8	4.0
(8) 170-190	1.5	.9	.9									3.4	6.3	5.0
200-220	2.8	3.0	1.8	.2	.1		.1					8.0	7.0	6.0
230-250	5.2	5.0	3.1	.6	.4							14.2	7.1	6.0
(W) 260-280	8.5	8.9	2.8	.5								20.7	5.9	6.0
290-310	11.0	7.1	1.9	.5	.2							20.7	5.4	4.0
320-340	4.0	2.5	.2	.4								7.1	4.8	4.0
VARIABLE	: ]	•••••	•••••	• • • • • •		•••••		•••••	•••••	• • • • • •	•••••	• • • • • • •		•••••
CALM	1111111	//////	//////	,,,,,,	//////	,,,,,,,	//////	//////	///////	///////	1111111	9.5	/////	111111
TOTALS	41.8	33.5	11.9	2.4	.7		.1					100.0	5.3	5.0
			TC	TAL NUM	BER OF	OBSERVA	TIONS	845						

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAR HOURS: 18-20

		-	01								1001	J. 10-20	•	
DIDDOM:			•••••	16 10		PEED IN			40.40		······			
Direction (Degrees)	1-4	5-9	10-14	15-19	20-24	25-29	30~34	35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	4.7	.6	.3	.3	•••••	******	• • • • • •	•••••	•••••	•••••		6.0	4.2	2.0
020-040	2.8	.5										3.2	2.8	2.0
050-070	3.1	.6	.3									4.1	3.9	3.0
(E) 080-100	1.8	1.6	.2	.2								3.7	5.0	5.0
110-130	1.8	1.1	.5									3.4	5.5	4.0
140-160	1.1	.2	.2									1.5	4.6	4.0
(5) 170-190	1.8	.6		.5								2.9	6.0	3.5
200-220	3.4	1.1	.3	.5	.2							5.5	5.8	4.0
230-250	6.0	4.2	1.0									11.2	4.7	4.0
(W) 260-280	9.9	4.4	2.4	.3								17.0	5.3	4.0
290-310	10.2	2.9	1.3	.3								14.8	4.3	3.0
320-340	5.2	1.5	.3									7.0	3.6	2.0
VARIABLE	1 	• • • • • •	• • • • • • •	•••••			• • • • • • •		• • • • • • •	•••••				•••••
CALM	11111111	,,,,,,		,,,,,,,	,,,,,,,,	,,,,,,,,	///////	,,,,,,,	1111111	///////	,,,,,,,,	19.6	,,,,,,	111111
TOTALS	51.8	19.3	6.8	2.1	.2		, , ,					100.0	3.8	4.0
2027	, 51.0	-3.3	3.0		••							100.0	3.0	4.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

TATION NUMBE	IR: 722786		NOITA		LLIAMS	арв/сна	NDLER A	z		D OF RE		APR 81 -		1
• • • • • • • • • • • • • • • • • • • •	•••••	•••••		• • • • • •	WIED C	SPRED IN		• • • • • • •		• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
N) 350-010	3.1	.8		.8	•••••			•••••	• • • • • • •			4.7	5.2	2.5
020-040	5.4	.8										6.2	2.6	2.0
050-070	7.0											7.0	2.7	3.0
E) 080-100	9.3											9.3	2.5	2.0
110-130	8.5	2.3										10.9	2.9	2.0
140-160	5.4	.8										6.2	2.4	2.0
8) 170-190	2.3	.8	.8									3.9	5.0	4.0
200-220	2.3	.8	2.3									5.4	8.6	9.0
230-250	2.3		.8									3.1	4.8	3.5
W) 260-280	4.7		.8									5.4	4.4	4.0
290-310	3.9	2.3	.8									7.0	5.1	3.0
320-340	.8	.8										1.6	5.5	5.5
VARIABLE	 	•••••		• • • • • •	•••••		• • • • • •	• • • • • • •	•••••	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	
CALM	11111111	/////	//////	///////	//////	,,,,,,,	//////	///////	///////	//////	///////	29.5	/////	/////
TOTALS	55.0	9.4	5.5	.8								100.0	2.8	3.0
			TC	TAL NUM	BER OF	OBSERVA	TIONS	129						
			•••••	• • • • • • •				• • • • • •				• • • • • • •		• • • • • • •

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91 URS: ALL

LST TO UTC: + 7	MONTH:	MAR	BOUR

• • • • • • • • • • • • • • • • • • • •	• • • • • • •			• • • • • •	• • • • • •									
DIRECTION	1-4	5-9	10.14	15-19		PEED IN	KNOTS 30-34	35-39	40.40	50.54		moma r	LOTTE N	Managa
DIRECTION	1~•		10-14	12-13	20-24	25-29	30-34	35-39	40-49	50-64	GB 65	TOTAL	MEAN	MEDIAN
(DEGREES)	1											*	WIND	WIND
(N) 350-010	2.1	.8	.2	.1	•••••		•••••	• • • • • • •		•••••	• • • • • • •	3.1	4.4	3.0
020-040	1.7	.5		.0								2.3	3.3	2.0
050-070	2.8	.7	.1									3.6	3.4	3.0
(E) 080-100	7.3	3.7	.4	.1								11.5	4.3	4.0
110-130	7.2	7.6	.5	.1								15.5	5.0	5.0
140-160	3.3	2.1	.5		.0							5.9	4.7	4.0
(8) 170-190	2.4	1.2	.6	.2	.0	.0						4.5	5.8	4.0
200-220	2.9	2.4	.8	.3	.1		.0					6.5	6.0	5.0
230-250	3.9	3.1	1.2	.2	.1							8.5	5.9	5.0
(W) 260-280	5.1	3.4	1.5	.2	.0							10.2	5.6	5.0
290-310	5.2	2.9	.9	.2	.0							9.1	5.0	4.0
320-340	2.7	1.0	.2	.1								4.1	4.2	3.5
VARIABLE		• • • • • •		•••••	• • • • • • •	•••••	•••••	•••••	•••••	•••••	• • • • • • •	•••••	•••••	•••••
CALM	,,,,,,,	//////	//////	//////	//////	//////	//////	//////	///////	//////	///////	15.3	/////	111111
TOTALS	46.6	29.4	6.9	1.5	.2							100.0	4.2	4.0

ERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED AFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS ATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAR HOURS: ALL TEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS). AND/OR VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET. WIND SPEED IN KNOTS DIRECTION 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDI (DEGREES) % WIND WIND ) 350-010 020-040 050-070 ) 080-100 110-130 140-160 25.0 17.0 17.0 ) 170-190 25.0 200-220 25.0 25.0 50.0 4.0 4.0 230-250 25.0 25.0 16.0 16.0 ) 260-280 290-310 320-340 **VARIABLE** CALM 100.0 10.3 11.0 TOTALS 25.0 25.0 50.0 TOTAL NUMBER OF OBSERVATIONS 4

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91
MONTH: APR HOURS: 03-05

				_
r21.	$\mathbf{ro}$	UTC:	+	7

		LS	T TO UI	C: + 7					MONTH	: APR	HOUR	s: 03-05	,	
• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • •	•••••			• • • • • • •	•••••	• • • • • • • •	• • • • • • •	•••••	•••••	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GB 65	TOTAL	MEAN WIND	MEDIAN WIND
(W) 350-010	.5	• • • • • •	•••••	•••••	•••••	• • • • • • •	•••••	•••••	•••••		•••••	.5	2.0	2.0
020-040	1.2											1.2	3.2	3.0
050-070	9.3	1.6	.5									11.4	3.7	3.0
(E) 080-100	23.5	12.8										36.3	4.1	4.0
110-130	14.2	10.9										25.1	4.3	4.0
140-160	2.3	1.6	.2									4.2	4.9	4.0
(8) 170-190	.2	2.1	.5									2.8	7.2	7.0
200-220	.5	2.8	.7									4.0	7.2	7.0
230-250	.5	.5	.2									1.2	5.8	5.0
(W) 260-280	.5	.2										.7	4.3	2.0
290-310	.5	.9										1.4	4.8	5.0
320-340	.2	.2	.2									.7	6.7	6.0
VARIABLE	: 	• • • • •		• • • • • •	• • • • • •		• • • • • • •	•••••		• • • • • •		•••••	•••••	•••••
CALM	11111111	//////	//////	///////	//////	///////	///////	///////	,,,,,,,	///////	///////	10.7	//////	/////
TOTALS	53.4	33.6	2.3									100.0	3.9	4.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

NATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: APR HOURS: 06-08

WIND SPEED IN KNOTS 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN 1-4 DIRECTION (DEGREES) % WIND WIND ...... I) 350-010 .3 .5 .1 .9 6.1 5.0 020-040 .5 .1 .8 1.5 5.1 4.0 050-070 4.3 1.1 .3 5.6 3.8 3.5 () 080-100 14.4 11.7 .3 26.5 4.8 4.0 110-130 18.3 20.8 .9 .1 40.2 5.0 5.0 140-160 2.7 2.4 .5 5.6 5.2 5.0 3) 170-190 .8 .7 .7 2.2 6.5 6.5 200-220 .9 2.4 .7 4.0 6.5 6.5 .5 230-250 .1 .1 -8 6.2 4.0 1) 260-280 .3 .1 . 4 5.0 4.0 290-310 .5 2.0 .5 2.0 329-340 .3 .3 6.5 6.5 VARIABLE CALM TOTALS 44.1 40.3 4.0 . 2 100.0 4.4 5.0

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: APR HOURS: 09-11

		LS	TTOUT	c: + 7					MONTH	: APR	HOUR	s: 09-11		
• • • • • • • • • • • • • • • • • • • •	• • • • • • • •		• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •			
						PEED IN								
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN	MEDIAN
(DEGREES)	1											•	WIND	WIND
(N) 350-010	1.0	.2	.7			•••••						1.9	6.2	4.0
020-040	.7	.4	.3									1.4	6.5	5.0
050-070	1.1	.9	.7									2.7	6.3	6.0
(E) 080-100	4.8	1.4	1.6	.7								8.4	6.1	4.0
110-130	8.8	10.6	1.3	.7								21.3	5.7	5.0
140-160	6.2	6.2	1.2									13.7	5.3	5.0
(S) 170-190	3.6	2.2	1.4	.2								7.4	5.8	5.0
200-220	4.9	2.1	1.1	-1								8.2	5.1	3.0
230-250	4.1	2.7	1.1	.2	.2							8.3	5.8	5.0
(W) 260-280	3.4	1.2	.3	.1								5.1	4.6	4.0
290-310	1.8	.3	.1									2.2	3.4	3.0
320-340	1.0	.2										1.2	2.9	2.0
VARIABLE			• • • • • •	• • • • • • •	• • • • • •		• • • • • • •				• • • • • •			• • • • • • •
	(													
CALM	///////	//////	//////	//////	//////	'//////	1111111	7/////	'//////	//////	//////	18.0	/////	/////
TOTALS	41.4	28.4	9.8	2.0	.2							100.0	4	4.0

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7

MONTE: APR HOURS: 12-14

		ومد	1 10 01	C: + /					MUNTH	: APR	HOUR	8: 12-14	•	
••••••	•••••	• • • • • •	•••••	• • • • • • •	WIND S	PEED IN	KNOTS	•••••	•••••	•••••		• • • • • • •		•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29		39–5د	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	.7		•••••	•••••	• • • • • •	• • • • • •	•••••	•••••	• • • • • • •	•••••	2.3	4.2	4.0
020-040	1.3	.3	.1									1.8	3.6	2.0
050-070	.7	1.0	.2									1.9	5.5	6.0
(E) 080-100	1.0	1.6	.4	.2								3.2	6.5	5.0
110-130	3.0	1.9	1.6	.1								6.6	6.2	5.0
140-160	2.7	2.9	.6	.1								6.2	5.5	5.0
(S) 170-190	2.8	2.7	1.7	.7	.1							7.9	7.0	6.0
200-220	3.7	5.0	2.2	.3	.3							11.6	7.0	6.0
230-250	5.3	7.7	4.6	.7								18.2	7.0	6.0
(W) 260-280	7.1	6.3	2.0	.3	.2							16.0	6.0	5.0
290-310	5.2	3.6	.3	.1								9.2	4.7	4.0
320-340	2.7	1.1	.1									3.9	3.8	3.0
VARIABLE	]	• • • • • •	•••••	•••••	·····	• • • • • • •	•••••	•••••	•••••	•••••		• • • • • •	· • • • • • •	•••••
CALM	1111111	,,,,,,	//////	//////	//////	,,,,,,,	//////	///////	//////	//////	///////	11.2	/////	/////
TOTALS	37.2	34.8	13.8	2.5	.6							100.0	5.4	5.0
			TO	TAL NUM	BER OF	OBSERVA	TIONS	900						

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#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER	R: 722786		ATION N T TO UI		LLIAMS	AFB/CHA	NDLER A	ΔZ		D OF RE		APR 81 - S: 15-17		1
• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	•••••		PEED IN		• • • • • • •	•••••	•••••	• • • • • • •	•••••	• • • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19				35-39	10-49	50~64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	.5	.1	•••••			• • • • • •	• • • • • • •	•••••	•••••	•••••	1.6	5.0	4.0
020-040	.2	.6	.2									1.1	6.3	6.0
050-070	.6	.4	.1									1.1	4.8	3.0
(E) 080-100	.4	1.4	.5									2.2	6.9	7.0
110-130	1.0	.7	.5									2.2	5.9	5.9
140-160	1.5	.5	.5									2.5	5.6	4.0
(S) 170-190	1.5	1.1	1.2	.1	-1							4.1	7.4	8.0
200-220	3.0	3.1	2.4	1.0	.6	.1						10.2	9.0	8.0
230-250	6.5	10.6	4.2	.9								22.1	6.7	6.0
(W) 260-280	8.0	12.6	3.9	1.2	.1							25.7	6.7	6.0
290-310	6.2	8.1	1.5	.1	.2							16.2	5.7	5.0
320-340	2.6	2.1	.7	.2								5.7	5.9	5.5
VARIABLE	: 	• • • • • •	• • • • • •	•••••	•••••	•••••	•••••	• • • • • • •	•••••	• • • • • • •		• • • • • • • •		
CALM	11111111	//////	///////	///////	1111111	///////	//////	'//////		//////		5.1	//////	/////
TOTALS	32.5	41.7	15.8	3.5	1.0	.1						100.0	6.3	6.0
			TO	TAL NUM	BER OF	OBSERVA	TIONS	804						

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7

MONTH: APR HOURS: 18-20

									PORT	. AFK	HOOK	D. 10-21	,	
					WIND S	PEED IN	KNOTS		•••••		• • • • • • •	•••••	•••••	•••••
DIRECTION (DEGREES)	1-4	5-9	10~14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.4	.5	.3	• • • • • • •	•••••	•••••	•••••	• • • • • • •	•••••	•••••	• • • • • • •	4.3	3.6	2.0
020-040	.5	.2	.3									1.0	6.7	5.0
050-070	.3	.2	.2									.7	5.5	5.0
(E) 080-100	.5	1.0										1.5	6.0	6.0
110-130	1.2	.9	.7	.3								3.1	7.7	6.0
140-160	1.7	.5	.2	.3	.2							2.9	6.4	4.0
(S) 170-190	2.4	.5	.3									2.2	4.9	4.0
200-220	2.4	1.9	1.4	.7	.2							6.5	7.5	6.5
230-250	4.8	5.6	1.5	.3								12.2	5.9	5.5
(W) 260-280	10.7	7.8	2.0	.3								20.9	5.3	4.0
290-310	11 4	4.6	1.5	.7								18.2	5.1	4.0
320-340	8.0	2.7	.3									11.1	3.7	3.0
VARIABLE	 					•••••	• • • • • •	•••••	•••••			• • • • • • • • • • • • • • • • • • • •	· · · · · · · ·	• • • • • • • • • • • • • • • • • • • •
AUNTUBLIS														
CALM	1111111	//////	///////	//////	//////	'//////	//////	'//////	//////	//////	///////	15.5	/////	/////
TOTALS	46.3	26.4	8.7	2.6	.4							100.0	4.5	4.0
			TO	TAL NUM	BER OF	observa	TIONS	588						

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# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7

MONTH: APR HOURS: 21-23

		LS	T TO UT	C: + 7					MONTE	: APR	HOUR	S: 21-23	1	
••••••	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •				• • • • • • •	• • • • • •	•••••	• • • • • •		•••••	• • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		PEED IN 25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL §	mean Wind	MEDIAN WIND
(N) 350-010	4.5	1.5	•••••	•••••	•••••	•••••	•••••	•••••	• • • • • • •	******	• • • • • • •	6.0	3.3	2.0
020-040	4.5	.8										5.3	3.0	2.0
050-070	3.8	.8										4.5	3.0	2.0
(E) 080-100	4.5	3.0										7.5	3.6	4.0
110-130	5.3	3.0			.8							9.0	5.0	3.0
140-160	.8	.8	.8									2.3	7.0	6.0
(8) 170-190	2.3											2.3	2.0	2.0
200-220	3.0	1.5	2.3	.8								7.5	7.5	7.5
230-250	6.0	.8	1.5									8.3	4.7	4.0
(W) 260-280	3.0	3.8										6.8	4.3	5.0
290-310	2.3	.8										3.0	4.8	4.0
320-340	4.5	.8		.8								6.0	4.5	2.5
VARIABLE	! 	• • • • • •							• • • • • • •		•••••	•••••	•••••	•••••
CALM	11111111	'/////	//////	//////	///////	///////	///////	///////	///////	///////	///////	31.6	/////	/////
TOTALS	44.5	17.6	4.6	1.6	.8							100.0	3.1	3.0

#### PERCENTAGE PREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

MATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO LTC: + 7 MONTH: APR HOURS: ALL WIND SPEED IN KNOTS DIRECTION | 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN (DEGREES) \* WIND WIND 1) 350-010 1.4 .5 .2 2.1 4.5 4.0 020-040 .9 . 4 .2 1.5 4.9 4.0 050-070 2.2 .8 .3 3.4 4.4 4.0 3) 080-100 6.0 .5 .2 4.2 11.0 4.9 4.0 110-130 7.2 7.3 .9 .2 .0 15.7 5.3 5.0 140-160 3.0 2.6 .6 . 1 .0 6.2 5.4 5.0 3) 170-190 1.9 1.6 1.0 .2 .0 4.8 6.5 6.0 200-220 2.8 2.9 1.5 .2 .4 7.9 7.1 .0 7.0 230-250 4.0 4.8 2.2 .4 .0 11.4 6.5 6.0 1) 260-280 5.1 4.9 1.4 .4 11.9 5.9 5.0 290-310 4.2 2.9 .6 .1 .0 7.9 5.1 4.0 320-340 1.0 .3 3.8 4.4 4.0 VARIABLE CALM TOTALS 41.1 33.9 9.7 2.1 .3 100.0 4.9 5.0

OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: APR BOURS: ALL CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS). AND/OR VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET. WIND SPEED IN KNOTS DIRECTION 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN (DEGREES) % WIND WIND •----(N) 350-010 020 -040 U50-070 (B) 080-100 110-130 140-160 (S) 170-190 200-220 230-250 (W) 260-280 33.3 33.3 66.7 14.5 14.5 290-310 33.3 33.3 6.0 6.0 320-340 VARIABLE CALM PLIATOT 33.3 33.3 33.3 100.0 11.7 12.0 3 TOTAL NUMBER OF OBSERVATIONS

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### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: AFR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAY HOURS: 03-05

		163	1 10 01	C: + 1					MONTE	i: MAI	noon	3: 03-0:	,	
************	• • • • • • • •	• • • • • •	•••••		WIND &	SPEED IN	KNOTS	•••••		• • • • • • •		• • • • • • •		•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GB 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.7	.2	• • • • • •	• • • • • •		• • • • • • •	•••••	•••••	•••••	******		.9	3.5	3.0
020-040	1.4	.7										2.1	3.7	3.0
050-070	9.0	1.7	.2									10.9	3.7	3.5
(E) 080-100	22.7	18.2										41.0	4.4	4.0
110-130	13.0	12.6	.2									25.8	4.7	4.0
140-160	2.6	.7										3.3	3.2	2.5
(8) 170-190	.9	.2	.2									1.4	4.8	4.0
200-220	.5	.9	1.2									2.6	8.2	8.0
230-250	.2			.2								.5	10.0	10.0
(W) 260-280	1.2	.2										1.4	3.7	4.0
290-310	.5	.7										1.2	5.4	5.0
320-340			.2									.2	11.0	11.0
VARIABLE	! 	• • • • • •					• • • • • •	• • • • • • •	•••••			• • • • • • •	· • • • • •	•••••
VARLABUS.														
CAIM	///////	'/////	//////	//////	//////	'//////	//////	///////	//////	///////	'//////	8.5	/////	/////
TOTALS	52.7	36.1	2.0	.2								100.0	4.1	4.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

		LS	T TO UI	C: + 7					HONTH	: MAY	HOUR	S: 06-08	3	
• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	WIND !	SPEED IN	KNOTS	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • • • •	• • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	.5	.3	•••••	•••••	•••••	• • • • • • •	•••••	•••••	•••••	•••••	•••••	.8	4.0	2.5
020-040	1.0	.3										1.2	3.6	3.0
050-070	4.2	1.9	.1	.1			•					6.4	4.4	4.0
(E) 080-100	13.9	13.5	.5	.1								28.1	4.8	5.0
110-130	12.4	26.4	1.5									40.3	5.6	6.0
140-160	3.1	3.3	.4									6.8	5.4	5.0
(S) 170-190	1.1	.5	.1									1.8	4.2	4.0
200-220	.8	1.6	-4	.1								3.0	7.1	7.0
230-250	1.0	.8	.3									2.0	5.4	5.0
(W) 260-280	.5	.7	.1									1.4	5.7	5.5
290-310	.1	.7										.8	6.2	6.0
320-340	.3		.1									.4	5.7	4.0
VARIABLE	· · · · · · · · · · · · · · · · · · ·	• • • • • •	• • • • • •	•••••	•••••	• • • • • • •	• • • • • •	•••••	•••••	•••••	•••••	•••••	•••••	•••••
CALM	///////	//////	///////	///////	/////	///////	///////	///////	1111111	//////	//////	6.8	//////	/////
TOTALS	38.9	50.0	3.5	.3								100.0	4.9	5.0

TOTAL NUMBER OF OBSERVATIONS 732 ......

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

EATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7
MONTH: MAY HOURS: 09-11

		كتما	T TO UI	C: + /					MONTE	: MAY	HOUR	S: 09-11	Ļ	
	• • • • • • • •	• • • • • •	•••••	•••••	WIND S	EPEED IN	RNOTS				•••••			• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
<b>■)</b> 350-010	.8	.4	.2	•••••	•••••	•••••	•••••	•••••	*****	*****	•••••	1.4	4.9	4.0
020-040	.8	.3										1.1	3.8	3.5
050-070	1.8	.6	.3	.2								2.9	5.3	3.5
I) 080-100	3.1	2.1	1.2	.6								6.9	6.1	5.0
110-130	9.2	6.3	.9	.1								16.5	4.8	4.0
140-160	9.2	5.2	1.2									15.6	4.7	4.0
3) 170-190	5.2	2.9	.9	.1								9.0	4.8	4.0
200-220	4.6	2.8	1.5		.1							9.0	5.4	4.0
230-250	4.8	3.0	.7									8.5	4.7	4.0
7) 260-280	4.3	1.4	.4									6.2	4.1	3.0
290-310	2.1	1.2										3.3	4.2	3.5
320-340	2.1	.2										2.3	3.0	3.0
VARIABLE	1 	· • • • • •	• • • • • •	• • • • • • •	•••••	•••••		• • • • • • •	• • • • • • •	• • • • • • •				
VANLABUR.														
CALM	11111111	'/////	//////	7/////	//////	///////	///////	//////	///////	///////	'//////	17.3	/////	/////
TOTALS	48.0	26.4	7.3	1.0	.1							100.0	4.0	4.0
			-			0000000	m	000						

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91
MONTH: MAY HOURS: 12-14

		LS	T TO UI	C: + 7					MONTE	: MAY	HOUR	S: 12-14	•	
	• • • • • • • • •	•••••	• • • • • •	*****	WIND S	SPEED IN	KNOTS	******		•••••	•••••	• • • • • • • •		•••••
Direction (Degrees)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	2	• • • • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • • • •			•••••	1.5	3.5	3.5
(N) 330-010	1	•										1.5	3.3	3.3
020-040	.9	.3										1.2	3.6	3.0
050-070	.7	.4	.1	.1								1.3	5.5	4.5
(E) 080-100	1.4	1.0	.4	.2								3.1	6.2	5.0
110-130	1.8	3.1	.8									5.6	6.1	5.0
140-160	2.5	3.3	.6									6.4	5.6	5.5
(8) 170-190	4.2	2.8	1.4	.1								8.5	5.5	5.0
200-220	4.7	7.3	3.3	.4								15.7	6.9	6.0
230-250	5.1	11.1	2.8	.1								19.1	6.2	6.0
(W) 260-280	7.8	9.1	1.7									18.6	5.4	5.0
290-310	4.4	4.4										8.8	4.5	4.5
320-340	1.8	1.5	.1									3.4	4.4	4.0
VARIABLE	 		• • • • • •	•••••	• • • • • •		• • • • • • •	•••••		•••••	• • • • • • • • • • • • • • • • • • • •	•••••		• • • • • • •
***************************************														
CALM	1111111	//////	//////	//////	//////	'//////	///////	///////	'//////	'//////	///////	6.7	/////	//////
TOTALS	36.6	44.5	11.2	.9								100.0	5.4	5.0

ERATING LOCATION "A"
APETAC, ASHEVILLE NO

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

ATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAY HOURS: 15-17

		123	1 10 01	C: + /					MUNTE	: MAI	BOUR	8: 13-1	•	
			•••••	•••••	WIND S	PEED IN	KNOTS	•••••	•••••		•••••		• • • • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GB 65	TOTAL %	MEAN WIND	MEDIAN WIND
) 350-010	.5	.6	.3	.1	•••••	••••••	•••••	•••••	•••••	•••••	•••••	1.5	7.1	7.5
020-040	.4	.4			.1							.9	7.4	5.0
050-070	.1	.6	.3									1.0	6.8	6.0
) 080-100	.1	.6	.3	.1								1.1	8.1	8.0
110130	.6	.9	.5		.1							2.2	7.3	6.0
140-160	1.1	1.0	.1		.1		.1					2.5	7.3	5.5
) 170-190	1.4	1.8	.8	.4	.1							4.4	7.4	8.0
200-220	3.0	4.9	4.1	.6	.3							12.9	7.8	7.0
230-250	4.1	10.3	6.2	.4								20.9	7.5	7.0
) 260-280	7.1	17.3	5.3									29.7	6.5	6.0
290-310	3.9	10.4	.5	.1								14.9	5.9	6.0
320-340	2.4	1.6	.5	.3								4.8	5.6	4.5
VARIABLE	: 	•••••	•••••	• • • • • •	•••••	•••••	•••••	•••••	•••••	• • • • • •	•••••	• • • • • • •	• • • • • •	•••••
CALM	1111111	//////	//////	//////	//////	//////	,,,,,,,	,,,,,,,	//////	//////	,,,,,,,	3.0	/////	/////
TOTALS	24.7	50.4	18.9	2.0	.7		.1					100.0	6.7	6.0
			TO	TAL NUM	BER OF	OBSERVA	TIONS	790						

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAY BOURS: 18-20

		ь	1 10 01	C: + /					MONTE	: MAI	HUUK	8: 10-2	,	
• • • • • • • • • • • • • • • • • • • •		• • • • • •	• • • • • • •		WIND 8	SPEED IN	KNOTS	•••••			• • • • • • • •		• • • • • •	•••••
Direction (Degrees)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	3.0	.5	• • • • • • •	.2		• • • • • • •	• • • • • •	•••••	•••••	•••••	• • • • • • •	3.7	3.3	2.0
020-040	.7	.5	.5	.2								1.9	7.4	6.0
050-070	.2		.8	.2								1.2	10.6	11.0
(E) 080-100	.7	.5	.3		.2		.2					1.9	9.6	7.0
110-130	2.0	.7	.7									3.4	5.6	4.0
140-160	.8	.3	.7									1.9	6.3	6.0
(S) 170-190	1.0	.2	1.5	.5								3.2	9.3	10.0
200-220	1.7	2.2	1.9	.3	.2							6.3	7.8	8.0
230-250	5.2	6.9	3.2		.2							15.6	6.5	6.0
(W) 260-280	7.1	8.5	2.2	.5								18.3	5.9	5.5
290-310	10.3	9.6	1.9									21.8	5.2	5.0
320-340	7.8	3.9	.7									12.4	4.2	4.0
VARIABLE	! ]	• • • • • •	•••••		•••••	••••••	• • • • • • •	•••••		•••••	• • • • • • •	••••	• • • • • •	•••••
CALM	,,,,,,,	//////	,,,,,,	,,,,,,	,,,,,,	,,,,,,	1111111	1111111	,,,,,,,	///////	1111111	8.6	111111	/////
TOTALS	40.5	33.8	14.4	1.9	.6		.2					100.0	5.4	5.0
			and the same	PRAT. MITTE	שת משמו	OBSEDUA	TO NO	E01						

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

ATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

HOURS: 21-23

PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTE: MAY

•••••	• • • • • • • • •	•••••	•••••	•••••	WIND S	PEED IN	KNOTS	• • • • • •	•••••	•••••	•••••	• • • • • •	• • • • • •	• • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GR 65	TOTAL %	MEAN WIND	MEDIAN WIND
1) 350-010	3.4	•••••	•••••	* * * * * * * * *		• • • • • • •	•••••	•••••	*****	•••••	•••••	3.4	2.0	2.0
020-040	2.7											2.7	2.3	2.0
050-070	.7		.7									1.4	8.0	8.0
:) 080-100	1.4		.7									2.0	4.3	2.0
110-130	3.4	3.4	.7									7.4	5.0	5.0
140-160	1.4	.7										2.0	4.0	3.0
1) 170-190	2.7	-7	.7									4.1	4.3	3.5
200-220	4.7	4.1										8.8	5.0	4.0
230- 350	4.7	4.7										9.5	4.4	4.5
1) 260-280	5.4	3.4										8.8	4.1	4.0
290-310	4.7		1.4									6.1	4.7	4.0
320-340	5.4	1.4										6.8	3.2	2.5
VARIABLE	: 	••••	•••••	•••••		• • • • • •		•••••	•••••	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	•••••
CALM	////////	//////	//////	///////	//////	'//////	//////	///////	///////	//////	'//////	37.2	/////	/////
TOTALS	40.6	18.4	4.2									100.0	2.7	4.0
			TYC	TAL NIMI	RR OF	OBSERVA	TIONS	148						

## PERCENTAGE PREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: MAY HOURS: ALL

***********	• • • • • • • • • • • • • • • • • • •	•••••	• • • • • •	•••••		PEED IN		•••••	•••••	• • • • • •	•••••	• • • • • • •		•••••
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30~34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)	1											8	WIND	WIND
(N) 350-010	1.2	.4	.1	.0	• • • • • • •	•••••	• • • • • •	•••••	• • • • • • •	•••••	•••••	1.7	4.2	3.0
020-040	.9	.4	.1	.0	.0							1.4	4.7	4.0
050-070	2.1	.8	.3	.1								3.3	4.9	4.0
(E) 080-100	5.5	4.7	.5	.2	.0		.0					11.0	5.1	5.0
110-130	6.0	7.7	.8	.0	.0							14.5	5.3	5.0
140-160	3.5	2.6	.5		.0		.0					6.6	5.1	4.0
(S) 170-190	2.6	1.6	.9	.2	.0							5.3	5.7	5.0
200-220	3.0	3.7	2.1	.3	.1							9.1	6.9	6.0
230-250	3.7	5.8	2.2	.1	.0							12.0	6.4	6.0
(W) 260-280	5.0	6.5	1.7	.1								13.3	5.8	6.0
290-310	3.6	4.4	.4	.0								8.4	5.2	5.0
320-340	2.4	1.2	.2	.0								3.9	4.4	4.0
VARIABLE	:   	• • • • • •	• • • • • •	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••
CALM	,,,,,,,	''''	//////	///////	//////	1111111	//////	//////	///////	//////	///////	9.6	/////	/////
TOTALS	39.5	39.8	9.8	1.0	.1							100.0	5.0	5.0

		CATION "A"	PERCE	_	CY OF OCCURRENCE FROM HOURLY OB:		D DIREC	TION VE	SUS WI	O SPEE	D
STATIO	M NUMBI	KR: 722786	STATION NA		AFB/CHANDLER A		DD OF RE	CORD: A	PR 81	- MAR 9	1
•••••	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	••••••		• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • •	• • • • • • •
CATEGO	ORY A:	CEILING GE 2		THAN 1500 F	BET WITH VISIB	ILITY GR 1/2 P	4ILE (08	00 METER	B).		
		VISIBILITY G	E 1/2 MILE	(0800 MRTERS)	BUT LESS THAN	3 MILES (4800	METERS	) WITH (	BILING	GE 200	FEET.
•••••	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	• • • • • • •	•••••	• • • • • •	• • • • • •	• • • • • • •
DIR	ECTION	1 1-4 5	-9 10-14		PEED IN KNOTS 25-29 30-34	35-39 40-49	50-64	CR 65	TYYPAT.	MRAN	MEDIAN
										· · · · · · ·	·····
(DE	GREES)								*	WIND	WIND
•••••			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •					• • • • • •
(W) 35	0-010										
. 02	0-040										
05	0-070										
(E) 08	100	ı			50.0				50.0	33.0	25.0
	0-130	]									
	0-160										
(8) 17	0-190										
20	0-220			50.0					50.0	18.0	18.0
23	0-250										
(W) 26											
	0-310										
32	20-340										
VAR	LIABLE	 I	• • • • • • • • • • • • • • • • • • • •	•••••		• • • • • • • • • • • • • • • • • • • •	• • • • • • •		•••••	• • • • • •	•••••
	im.	///////////////////////////////////////	///////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////	///////	1111111	.0	//////	/////
TOT	ALS	I		50.0	50.0				100.0	25.5	21.5
			TOT	AL NUMBER OF	OBSERVATIONS	2					

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

		LS	T TO UI	c: + 7					MONTE	ווטע:	HOUR	s: 03-05	;	_
• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • •		•••••	WIND S	SPEED IN	KNOTS	• • • • • • •	•••••	•••••	•••••	•••••	•••••	•••••
Direction (Degrees)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	 	.2	• • • • • •	•••••	•••••	• • • • • • •	• • • • • • •	• • • • • • •	•••••	•••••	•••••	.2	7.0	7.0
020-040	3.2	.5		.5								4.1	4.8	3.0
050-070	8.7	1.8										10.6	3.7	4.0
(E) 080-100	26.9	18.6										45.5	4.2	4.0
110-130	13.3	10.6	.7									24.6	4.9	4.0
140-160	1.4	.5										1.8	3.6	3.0
(S) 170-190	.5	.5										.9	4.8	4.5
200-220	.2	.5										.7	6.0	6.0
230-250	.5											.5	2.0	2.0
(W) 260-280														
290-310	.5											.5	3.0	3.0
320-340	.7											.7	2.0	2.0
VARIABLE	:   	• • • • • •	• • • • • •	•••••	•••••		• • • • • • •	• • • • • • •	•••••	•••••	• • • • • •	•••••	• • • • • •	•••••
CALM	///////	//////	//////	///////	//////	///////	///////	///////	///////	///////	///////	9.9	/////	/////
TOTALS	55.9	33.2	.7	.5								100.0	3.9	4.0
					mm or	OR OTHER	MIONG	425						

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFR/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JUN HOURS: 06-08 WIND SPEED IN KNOTS 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GR 65 DIRECTION TOTAL MEAN MEDIAN (DEGREES) WIND \* WIND ..... (N) 350-010 4.0 -1 .4 6.7 020-040 1.2 .1 .3 1.8 5.6 4.0 050-070 3.5 1.1 4.6 3.6 4.0 (E) 080-100 14.5 18.5 .4 .3 33.6 5.2 5.0 110-130 12.3 27.8 1.9 42.1 5.8 6.0 140-160 3.5 2.0 .5 4.8 4.0 (8) 170-190 1.1 .5 .1 1.8 4.6 4.0 .7 200-220 2.0 .1 .8 3.0 230-250 .4 .5 3.R 3.0 .1 (W) 260-280 3.5 .1 .5 3.5 290-310 .1 .3 4.7 6.0 320-340 .4 .1 .5 3.8 3.0 VARIABLE //////// 6.8 /////// CALM TOTALS 38.4 50.7 3.2 .5 100.0 5.0 5.0

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PER

STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7
MONTH: JUN HOURS: 09-11

	LST TO UTC: + 7										MONTH: JUN HOURS: 09-11							
•••••	• • • • • • • •	•••••		• • • • • • •	WTMD S	PEED IN	KNOTS	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • •	•••••				
Direction (Degrees)	1-4	5-9	10-14	15-19			30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND				
(N) 350-010	.3	.4	.1	•••••		•••••		•••••			•••••	.9	5.8	6.0				
020-040	.2	.2	.1									.6	5.8	5.0				
050-070	1.0	.6		.1								1.7	5.1	4.0				
(E) 080-100	3.3	1.7	.7	.4								6.1	5.6	4.0				
110-130	8.2	7.4	1.3	.2								17.2	5.4	5.0				
140-160	9.4	4.0	1.0	.1								14.6	4.5	4.0				
(8) 170-190	6.7	3.3	1.0									11.0	4.5	4.0				
200-220	5.8	2.4	.4	.1								8.8	4.3	4.0				
230-250	4.7	1.9										6.6	3.5	3.0				
(W) 260-280	4.3	2.8	.1									7.2	3.9	4.0				
290-310	2.6	1.3										3.9	3.9	3.0				
320-340	1.8	.2										2.0	3.2	3.0				
VARIABLE	! !	•••••	• • • • • •	•••••		• • • • • • •	•••••	• • • • • • •	• • • • • •	•••••	• • • • • • •	•••••	· • • • • •	•••••				
CALM	///////	,,,,,,,	,,,,,,,,	,,,,,,,,		,,,,,,,	,,,,,,,	(111)11)	,,,,,,,,	,,,,,,,,	,,,,,,,,,	19.6	,,,,,,	,,,,,,				
CHARL	[	,,,,,,,			,,,,,,,							19.0	.,,,,,	,,,,				
TOTALS	48.3	26.2	4.7	.9								100.0	3.7	4.0				

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DILECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTE: JUN BOURS: 12-14

		Teg.	T 10 01	C: + /					MONTE	1: 308	BOOK	a: 12-14	•	
************	• • • • • • •	• • • • • •	•••••	• • • • • • •	WIND S	PEED IN	KNOTS		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	.6	.3	•••••	•••••		•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	1.8	5.2	4.5
020-040	.2	.6										.8	4.9	5.0
050-070	.4	.3	.2									1.0	5.8	5.0
(B) U80-100	.9	.4	.7	.1								2.1	6.8	6.0
110-130	1.8	1.3	.7									3.8	5.8	5.0
140-160	2.2	2.1	.2									4.6	5.1	5.0
(S) 170-190	2.3	3.4	1.7	.3								7.8	6.9	6.0
200-220	3.9	4.2	2.1	.1								10.3	6.5	6.0
230-250	6.2	9.6	2.2	.2								18.2	6.0	6.0
(W) 250-280	8.4	14.7	1.8									24.9	5.7	6.0
290-310	7.1	6.6	.9	.3								14.9	5.3	5.0
320-340	3.7	.8	.1									4.6	3.8	4.0
VARIABLE	l  I	• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	•••••						• • • • • • •	• • • • • • • •	•••••	•••••
VARLABUB														
CALM	///////	//////	///////	//////	//////	'//////	///////	'//////	///////	'//////	'//////	5.3	/////	111111
TOTALS	38.0	44.6	10.9	1.0								100.0	5.5	5.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JUN HOURS: 15-17 WIND SPEED IN KNOTS DIRECTION 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN (DEGREES) WIND WIND \* (N) 350-010 .5 .1 3.6 3.0 .6 020-040 .1 .3 .1 .5 6.5 7.0 050-070 .1 .3 .1 .5 6.5 5.0 (E) 080-100 .5 .1 .4 1.0 6.0 5.0 110-130 .3 .8 .5 8.2 1.5 9.0 140-160 -4 .5 5.3 .9 5.0 (8) 170-190 .4 1.9 .5 2.8 7.4 7.5 200-220 2.3 3.1 2.4 8.4 7.7 .6 8.0 230-250 4.0 10.5 4.6 .1 7.1 7.0 19.3 (W) 260-280 8.5 19.9 33.0 6.0 6.4 290-310 5.3 11.8 2.8 .1 19.9 6.3 6.0 320-340 3.8 4.8 8.9 5.1 5.0 VARIABLE CALM 100.0 6.4 6.0

TOTALS 26.4 53.9 16.3 .8

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: JUN HOURS: 18-20

		183	10 01	.c. v ,					PANAL		HOOK	D. 10-20	,	
	•••••	•••••	•••••		WIND S	SPEED IN	KNOTS			• • • • • •		• • • • • • •		•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	mean Wind	MEDIAN WIND
(N) 350-010	1.1	1.0	.5	.3	.5	• • • • • • •	•••••	• • • • • • •			• • • • • • •	3.3	8.9	6.0
020-040	.5	.6	.3	.2								1.6	7.4	7.0
050-070	.2	.2	.2	.5		.2						1.1	14.0	15.0
(E) 080-100	.2	.5	.3	.3								1.3	10.4	9.0
110-130	.6	.6	.6		.2							2.1	8.3	8.0
140-160	.2	.3	.5	.2								1.1	8.9	10.0
(8) 170-190	.3	.3	.2		.2							1.0	9.2	7.5
200-220	1.3	2.7	1.1	.3	.2							5.6	7.5	6.0
230-250	4.6	5.3	1.8		.2							11.8	6.1	5.5
(W) 260-280	8.6	12.8	1.0									22.3	5.4	5.0
290-310	9.9	14.5	2.1	.2								26.6	5.6	6.0
320-340	9.7	5.6	.6									15.9	4.5	4.0
VARIABLE	<u> </u> 	•••••	•••••	• • • • • • •	•••••	• • • • • • •	•••••	• • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • •	•••••
CALM	1111111	//////	//////	///////	//////	///////	//////	///////	///////	///////	///////	6.2	/////	//////
TOTALS	37.2	44.4	9.2	2.0	1.3	.2						100.0	5.6	5.0
			TC	YTAL NIP	BER OF	OBSERVA	TIONS	627						

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

		LS	T TO UT	C: + 7					MONTE	: JUN	HOUR	s: 21-23	ı	
•••••	•••••	• • • • • •	• • • • • •	•••••	WIND S	PEED IN	KNOTS	•••••	•••••	•••••	• • • • • • •		•••••	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30~34	35-39	40-49	50-64	GE 65	TOTAL \$	MEAN WIND	MEDIAN WIND
(N) 350-010	4.1	1.2	1.8	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	7.1	5.1	2.5
020-040	1.2	.6										1.8	4.7	4.0
050-070	.6	1.8										2.4	6.0	6.5
(E) 080-100	1.8	1.8										3.6	5.0	5.5
110-130		3.0			.6							3.6	9.7	7.5
140-160	1.2	.6		.6								2.4	6.8	4.5
(S) 170-190	2.4	1.2	.6									4.1	5.6	4.0
200-220	3.6	1.8	.6									5.9	5.2	4.0
230-250	5.9	3.0	.6									9.5	4.3	4.0
(W) 260-280	5.3	5.3										10.7	4.8	4.5
<b>29</b> 0-310	10.1	1.8										11.8	3.0	2.5
320-340	12.4											12.4	2.5	2.0
VARIABLE	1	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •						•••••	• • • • • • •	•••••	•••••
CALM	1111111	,,,,,,	,,,,,,,	//////		1111111	,,,,,,,	,,,,,,,	,,,,,,,,	'//////	1111111	24.9	//////	/////
TOTALS	48.6	22.1	3.6	.6	.6							100.0	3.4	4.0
			TO	TAL NUM	BER OF	OBSERVA	TIONS	169						

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

		LS	T TO UI	C: + 7					MONTE	: JUN	HOUR	S: ALL		
	• • • • • • • • •	• • • • • • •	•••••	•••••	WIND S	PEED IN	KNOTS				• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •
DIRECTION	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(Degrees)	I	•••••	•••••	•••••	•••••		•••••	• • • • • • •	• • • • • •	•••••	• • • • • • •	*	WIND	WIND
(N) 350-010	.7	.4	.2	.0	.1	• • • • • •		•••••	• • • • • •		• • • • • •	1.4	6.4	5.0
020-040	.7	.4	.1	.1								1.3	5.6	4.0
050-070	1.8	.6	.1	.1		.0						2.6	4.8	4.0
(B) 080-100	5.9	5.3	.4	.2								11.9	5.0	5.0
110-130	5.4	7.6	.9	.0	.0							14.0	5.7	6.0
140-160	3.1	1.7	.4	.1								5.3	4.8	4.0
(8) 170-190	2.2	1.9	.7	.1	.0							4.8	5.7	5.0
200-220	2.7	2.4	1.1	.2	.0							6.4	6.2	6.0
230-250	3.8	4.9	1.5	.1	.0							10.4	6.0	6.0
(W) 260-280	5.5	8.9	1.3									15.6	5.7	6.0
290-310	4.6	5.7	.9	.1								11.4	5.5	5.0
320-340	3.7	1.8	.2									5.7	4.3	4.0
VARIABLE	i	•••••		• • • • • •	•••••		•••••	•••••	•••••	•••••	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •
CALM	1111111	//////	///////	///////	//////	///////	//////	///////	///////	//////	<i>''''</i>	9.2	/////	//////
TOTALS	40.1	41.6	7.8	1.0	.1							100.0	5.0	5.0
			TO	TAL NUM	BER OF	observa	TIONS	4566						

C - 4 - 53

		SEALITE NC		PERC	entage	-			CE SURF		D DIREC	TION VE	RSUS WIN	D SPEE	D
STAT	ION NUMBI	ER: 722786		ATION N T TO UT		LLIAMS	AFB/CHA	NDLER A	Z		D OF RE		APR 81 - S: ALL	MAR 9	1
••••	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	•••••	• • • • • •	•••••	•••••	•••••	•••••	• • • • • • •
CATE	GORY A:	CEILING GE			AND/OR								-		
	• • • • • • • •	VISIBILITY		/2 MII:B	•	-	BUT LE	ss than	3 MILE	S (4800	METERS	) WITH	CEILING	GB 200	FEET.
מ	TRECTION	1-4	5-9	10-14	15-19		PEED IN		35_39	40-49	50-64	GR 65	TOTAL.	MRAN	MEDIAN
	DEGREES)	• : • • • • • • • •	••••											• • • • • •	WIND
(N)	350-010	1	• • • • •	•••••	• • • • • •	•••••		• • • • • • •	•••••	• • • • • •	•••••	•••••	• • • • • • • •	•••••	•••••
	020-040														
	050-070														
(B)	080-100														
	110-130														
	140-160														
(8)	170-190														
:	200-220														
	230-250														
(W)	260-280														
	290-310														
	320-340														
	ARIABLE	 	••••	• • • • • •	•••••			• • • • • • •		• • • • • •				•••••	•••••
	CALM	111111111	,,,,,	1111111	1111111	(//////	,,,,,,,,	//////	,,,,,,,,,	//////	,,,,,,,,	,,,,,,,,	.0	//////	111111
	OTALS													.0	
	~47140	ı		7717	PAI. NUM	BER OF	OBSERVA	TIONS	0					.0	.0

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91
MONTH: JUL HOURS: 03-05

LST TO UTC: + 7 MONTH: JUL

		LS	T TO UI	C: + 7					MONTE	i: JUL	HOUR	s: 03-0	5	
**********	• • • • • • • •	• • • • • •	•••••	• • • • • • •	WIND S	SPEED IN	KNOTS	•••••	•••••		• • • • • • • • • • • • • • • • • • • •	• • • • • • •		
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29	-	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
		· · · · · <u>·</u> ·	• • • • • • •	• • • • • • •				• • • • • • •		• • • • • • •	•••••	• • • • • • •	• • • • • • • •	• • • • • • •
(N) 350-010	1.4	.2		.2								1.9	5.1	3.5
020-040	1.4	.5										1.^	3.3	2.5
050-070	4.5	.9										5.4	3.4	3.0
(E) 080-100	13.8	8.9	.5	.2								23.5	4.4	4.0
110-130	16.2	14.1	1.9	.2								32.4	5.0	4.5
140-160	4.5	3.1	.2									7.7	4.4	4.0
(8) 170-190	.7	.2										.9	3.5	3.5
200-220	1.6	.7										2.3	4.0	4.0
230-250	2.1											2.1	3.2	4.0
(W) 260-280	1.2											1.2	2.8	2.0
290-310	2.1											2.1	3.0	3.0
320-340	.2	.2	.2									.7	7.3	5.0
VARIABLE	 	· • • • • •		• • • • • • •		• • • • • • •	•••••	•••••	•••••	· • • • • • •	• • • • • • •		• • • • • •	•••••
CALM	11111111	//////	1111111	///////	//////	,,,,,,,	//////	///////	///////	///////	1111111	17.8	/////	/////
TOTALS	49.7	28.8	2.8	.6								100.0	3.7	4.0
			m·c	WEST BUILD	שם משפו	ODGDDVA	TTOME	426						

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JUL BOURS: 06-08

		LS	T TO UI	C: + 7					MONTE	i: JUL	HOUR	S: 06-08	3	
******	• • • • • • • •	• • • • •	• • • • • • •	•••••			•••••		• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	1014	15-19		3PEED IN 25-29		35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(R) 350-010	.8	.3	.1	•••••	• • • • • •	• • • • • • •	•••••	•••••	• • • • • • •	•••••	• • • • • •	1.2	4.4	4.0
020-040	1.6	.3										1.9	2.9	2.5
050-070	3.6	.3	.4									4.3	3.6	3.0
(E) 080-100	9.9	8.1	.1									18.1	4.5	4.0
110-130	15.4	21.2	1.1									37.6	5.2	5.0
140-160	5.5	4.4	1.1									11.0	4.9	4.5
(8) 170-190	1.9	.3		.1								2.3	3.8	3.0
200-220	.8		.1	.1								1.1	5.4	2.5
230-250	.5	.4										1.0	3.9	4.0
(W) 260-280	1.9	.1										2.1	2.6	2.0
290-310	1.0	.5										1.5	4.1	4.0
320-340	1.4	.4	.1									1.9	4.4	4.0
VARIABLE	<u> </u> 	• • • • • •		•••••	•••••	• • • • • • •	• • • • • • •			•••••	•••••		• • • • • •	•••••
CALM	11111111	//////	///////	///////	//////	///////	7/////	'//////	///////	'//////	///////	15.9	/////	/////
TOTALS	44.3	36.3	3.0	.2								100.0	4.0	4.0
			TYC.	PTAT. NIIM	BED OF	OBSERVA	TTONS	728						

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

DIMITON NORDE	N. 722700	LS	T TO UI	C: + 7	LILLIANS	AF B/ CIE	MUDBA A	•	MONTE	: JUL		S: 09-11	· rent 3	1
•••••	• • • • • • • •	• • • • • •	•••••	• • • • • • •	WIND S	PEED IN	KNOTS			• • • • • • •		• • • • • • • •	• • • • • •	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40~49	50~64	GB 65	TOTAL %	MEAN WIND	MEDIAN
(N) 350-010	.7	.6	•••••	• • • • • • •			•••••	•••••		•••••	•••••	1.2	4.6	4.0
020-040	.9	.2										1.1	3.4	4.0
050-070	.9	.1	.1									1.1	3.7	3.0
(E) 080-100	2.4	1.5	.2									4.2	4.4	4.0
110-130	7.0	7.4	1.4	.1	.1							16.0	5.4	5.0
140-160	7.1	5.8	1.2									14.1	5.1	4.5
(8) 170-190	6.0	2.1	.3									8.4	3.9	4.0
200-220	4.3	2.2	.2									6.7	4.0	4.0
230-250	5.6	2.3	.2									8.2	3.9	4.0
(W) 260-280	5.7	2.8	.1									8.6	4.0	4.0
290-310	4.2	2.9	.4									7.5	4.5	4.0
320-340	1.4	1.5										3.0	4.6	5.0
VARIABLE	 	• • • • •	•••••	• • • • • • •	•••••	•••••	•••••	•••••	• • • • • • •	• • • • • • •	•••••	• • • • • • •	••••	•••••
CALM	,,,,,,,,	/////	//////	,,,,,,	///////	,,,,,,,	//////	,,,,,,,	//////	//////	,,,,,,,	19.9	/////	/////
TOTALS	46.2	29.4	4.1	.1	.1							100.0	3.6	4.0

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

SINIION NORDS	K: /22/60		T TO UI		TLIMA	AFB/CDA	MULBR A	L.		: JUL		S: 12-14		1
•••••	• • • • • • • •	•••••	• • • • • • •	•••••		SPEED IN		•••••	• • • • • • •	•••••	•••••	•••••	•••••	•••••
Direction (Degrees)	1-4	5-9				25-29						TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.1	.1	• • • • • •	•••••	•••••	• • • • • • •	•••••	•••••	•••••	•••••		.2	3.5	3.5
020-040	.7	.1										.8	3.1	4.0
050-070	.6	.2										.8	4.4	4.0
(B) 080-100	1.5	.4										2.0	3.2	2.5
110-130	1.8	1.8	.4									4.0	5.2	5.5
140-160	2.3	2.2	.7		.1							5.3	5.5	5.0
(8) 170-190	3.0	2.6	1.3									6.9	6.0	5.0
200-220	3.6	3.5	.8									7.9	5.2	5.0
230-250	5.8	8.4	.9	.1								15.2	5.5	5.0
(W) 260-280	10.0	22.9	1.8									34.7	5.7	6.0
290-310	4.6	9.3	1.2									15.1	5.8	6.0
320-340	.8	1.0	.2									2.0	5.4	5.0
VARIABLE	! 	• • • • •		•••••	• • • • • •	• • • • • • •		•••••	• • • • • • •	*****	•••••		•••••	•••••
CALM	,,,,,,,,	'/////	///////	//////	//////	(//////	///////	,,,,,,	//////	1111111	,,,,,,,	5.2	/////	//////
TOTALS	34.8	52.5	7.3	.1	.1							100.0	5.3	5.0

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JUL HOURS: 15-17

			T 10 U1	U: + /					MONTE	1: JOT	HOUR	S: 15-17		
***********		• • • • • • •		•••••	WIND S	SPEED IN	KNOTS				•••••	• • • • • • •	• • • • • •	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.5	.1	.2	•••••	.1	• • • • • • • •	•••••	•••••	•••••	•••••	•••••	1.0	7.3	4.5
020-040	.5			.2								.7	7.3	2.0
050-070	.4	.1	.1		.1							.7	8.3	5.0
(E) 080-100	.2	.5		.2								1.0	8.3	7.0
110-130	.5	.7	.2									1.5	5.7	6.0
140-160	.7	.9	.4	.1								2.1	6.4	5.0
(S) 170-190	1.2	.9		.4								2.5	6.3	4.5
200-220	1.1	2.0	1.5	.1								4.7	7.1	6.5
230-250	5.3	8.7	1.7	.1								15.8	6.1	6.0
(W) 260-280	10.1	26.3	2.8									39.2	6.0	6.0
290-310	7.5	13.3	3.2	.1								24.1	6.3	6.0
320-340	1.1	2.8	.4		.1							4.4	6.1	6.0
VARIABLE	: :	• • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	•••••		•••••	•••••	•••••		•••••	• • • • • • •	• • • • • •	•••••
CAIM	1111111	,,,,,,	//////		1111111	((((()))	//////		,,,,,,,,	,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.3	/////	/////
TOTALS	29.1	56.3	10.5	1.2	.3							100.0	6.1	6.0
TOTABO	1 23.1	JU. J	17.7	1.2	.,							100.0	J.1	0.0
			TC	TAL NUM	Ber of	OBSERVA	TIONS	814						

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# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTE: JUL BOURS: 18-20

		LS	T TO UI	:C: + 7					MONTE	i: Jul	BOUR	S: 18-20	)	
	•••••	• • • • • •	• • • • • •	•••••	WTND S	PEED IN	KNOTS	•••••	• • • • • • •	•••••	•••••	•••••		•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24		30-34	35-39	40-49	50-64	GE 65	TOTAL	mean Wind	WEDIAN
(N) 350-010	2.6	 .9	9	.6		2				•••••	• • • • • • •	5.2	7.6	5.0
(11) 330 020		•••	••									3.2		3.0
020-040	.8	1.1	1.4	.9	.5							4.6	11.3	10.0
050-070		.5	.5	.3	.2	.2						1.5	13.4	12.5
(E) 080-100	.5	.5	.5		.5							1.8	10.6	9.0
110-130	.9	1.1	.9	.3	.2							3.4	8.9	8.0
140-160	1.2	1.2	.5	.5	.2							3.5	7.9	7.0
(8) 170-190	.6	.6	.3									1.5	6.2	5.0
200-220	1.7	2.2	1.2	.3								5.4	7.4	8.0
230-250	6.0	4.8	.5	.2								11.4	4.9	4.0
(W) 260-280	13.4	10.9	.2									24.4	4.6	4.0
290-310	9.4	10.6	1.8	.2								22.0	5.4	5.0
320-340	3.5	3.7	.8									8.0	5.4	5.0
VARIABLE	1	• • • • • •	• • • • • • •	•••••	•••••		• • • • • • • • • • • • • • • • • • • •		• • • • • • •		•••••	••••	• • • • • •	•••••
CALM	///////	//////	'//////	'//////	'''''	'//////	///////	'''''	///////	'''''	'//////	7.2	//////	/////
TOTALS	40.6	38.1	9.5	3.3	1.6	.4						100.0	5.7	5.0

290-310

320-340

7.3

3.7

1.8

1.2

.6

STATION NUMBER: 722786

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: APR 81 - MAR 91

MONTH: JUL HOURS: 21-23 LST TO UTC: + 7 WIND SPEED IN KNOTS DIRECTION 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN (DEGREES) WIND (N) 350-010 1.2 3.7 4.3 4.0 020-040 1.2 1.2 5.5 8.7 6.0 1.8 .6 .6 17.5 050-070 .6 .6 .6 17.0 .6 2.4 (E) 080-100 2.4 .6 4.9 11.0 9.5 1.2 .6 110-130 3.0 3.0 .6 12.2 9.4 9.0 140-160 1.8 1.8 .6 .6 4.9 7.6 8.5 (8) 170-190 4.3 6.7 2.4 4.3 3.0 200-220 4.3 3.0 1.2 8.5 5.5 4.5 230-250 5.5 7.3 3.7 3.5 1.8 (W) 260-280 9.1 1.2 10.4 3.2 3.0

STATION NAME: WILLIAMS AFE/CHANDLER AZ

......

TOTAL NUMBER OF OBSERVATIONS 164

9.1

5.5

3.2

4.1

3.0

2.0

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JUL HOURS: ALL

***********	• • • • • • •	• • • • • •	• • • • • •	•••••	WIND S	PEED IN	KNOTS	•••••	•••••	•••••	• • • • • •	• • • • • •	• • • • • •	• • • • • •
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DECREES)			•••••	•••••	•••••	•••••						*	WIND	WIND
(M) 350-010	1.0	.4	.2	.1	.0	.0					•••••	1.7	6.2	4.0
020-040	1.0	.3	.2	.2	.1							1.8	7.0	4.0
050-070	1.3	.3	.2	.0	.1	.0	.0					2.0	5.6	4.0
(B) 080-100	3.7	2.7	.2	.1	.1							6.9	4.9	4.0
110-130	6.0	6.9	1.0	.1	.0		.0					14.1	5.5	5.0
140-160	3.5	3.0	.7	.1	.0							7.3	5.4	5.0
(S) 170-190	2.6	1.3	.4	.1								4.4	4.9	4.0
200-220	2.4	2.0	.7	.1								5.2	5.5	5.0
230-250	4.5	4.5	.6	.1								9.6	5.2	5.0
(W) 260-280	7.5	11.3	.9									19.8	5.3	5.0
290-310	5.0	6.4	1.2	.0								12.6	5.6	5.0
320-340	1.5	1.7	.3		.0							3.5	5.3	5.0
VARIABLE	: 	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	• • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • •	•••••
CALM	1111111	//////	///////	,,,,,,,	,,,,,,	,,,,,,,	//////	//////	///////	//////	,,,,,,,	11.2	/////	/////
TOTALS	40.0	40.8	6.6	.9	.3							100.0	4.8	5.0

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: JUL BOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS). AMD/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

•••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	•••••		•••••	WIND 8	PEED IN	KNOTS	•••••	•••••				• • • • • •	• • • • • • •
	DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
•••	(DEGREES)		• • • • • •	•••••	• • • • • •	•••••	• • • • • • •	•••••	• • • • • •	•••••	• • • • • • •	•••••	*	WIND	WIND
<b>(M</b> )	350-010	 	• • • • • •	•••••	• • • • • •	•••••	• • • • • • •	•••••	• • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • •	•••••
	020-040				11.1								11.1	18.0	18.0
	050-070														
(E)	080-100					11.1							11.1	22.0	22.0
	110-130				11.1								11.1	16.0	16.0
	140-160					11.1							11.1	23.0	23.0
(8	170-190				11.1								11.1	16.0	16.0
	200-220		11.1										11.1	8.0	8.0
	230-250			11.1	11.1								22.2	14.0	14.0
(W)	260-280														
	290-310														
	320-340					11.1							11.1	22.0	22.0
•••		! • • • • • • • • • • • • • • • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •			• • • • • • •		•••••
	VARIABLE														
	CALM	///////	//////	//////	//////	//////	'//////	//////	//////	//////	///////	//////	.0	/////	/////
	TOTALS		11.1	11.1	44.4	33.3							100.0	17.0	18.0

TOTAL NUMBER OF OBSERVATIONS 9

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### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: AUG BOURS: 03-05

		LS	T TO UT	C: + 7					MONTH	: AUG	HOUR	s: 03-05	5	
•••••	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •				•••••	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		3PEED IN 25-29		35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	.4	.2	•••••	•••••	•••••	•••••	•••••	•••••	•••••		2.2	3.8	3.5
020-040	2.4	.9										3.3	3.1	2.0
050-070	6.3	2.0										8.3	3.4	3.0
(B) 080-100	13.5	10.0	.2									23.7	4.3	4.0
110-130	17.4	13.5	.4									31.3	4.5	4.0
140-160	3.3	2.0	-4									5.7	4.9	4.0
(8) 170-190	.7	.2										.9	3.0	2.5
200-220	1.1	.9										2.0	4.7	4.0
230-250	.7	.2										.9	3.3	3.0
(W) 260-280	1.1											1.1	2.4	2.0
290-310	.4	.4		.2								1.1	6.4	5.0
320-340	.2	.2										.4	4.0	4.0
VARIABLE	! 	• • • • • •	• • • • • •	•••••	• • • • • •		•••••		• • • • • •	•••••	• • • • • • •	•••••	• • • • • •	•••••
CALM	1111111	//////	//////	///////	//////	///////	///////	///////	///////	//////	'//////	19.3	/////	/////
TOTALS	48.6	30.7	1.2	.2								100.0	3.4	4.0

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

OSIGNATUR WORKER	/ 55 / 64	LS	T TO UT	C: + 7				_	MONTE	: AUG	HOUR	s: 06-08	3	•
•••••	• • • • • • • •	•••••	• • • • • • •	• • • • • • •	WIND S	PEED IN	KNOTS			• • • • • •	•••••	• • • • • • •	• • • • • •	•••••
DIRECTION (DEGREES)	14	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	.3	• • • • • •	• • • • • •	•••••	•••••	•••••	•••••	•••••	•••••	•••••	1.0	3.5	3.0
020-040	2.6	.6	.1									3.4	3.3	3.0
050-070	4.9	1.7	.3									6.9	4.0	3.0
(E) 080-100	13.1	9.1	.3									22.4	4.5	4.0
110-130	18.5	18.9	1.3									38.8	4.9	5.0
140-160	4.5	3.6										8.2	4.5	4.0
(S) 170-190	1.4	.1										1.6	3.1	3.0
200-220	1.3	.3										1.6	3.0	2.5
230-250	.9	.5										1.4	3.9	4.0
(W) 260-280	.8											.8	2.8	3.0
290-310	.4	.4										.8	4.2	4.5
320-340	1.2											1.2	2.2	2.0
VARIABLE	 	• • • • • •	• • • • • •	• • • • • •	•••••	• • • • • • •		•••••	•••••	•••••	•••••	•••••	• • • • • •	
CAIM	,,,,,,,	//////	//////	//////	//////	,,,,,,	///////	///////	//////	///////	///////	12.1	/////	//////
TOTALS	50.4	35.5	2.0									100.0	3.9	4.0

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: AUG HOURS: 09-11

													-	
	• • • • • • • •	• • • • • •	•••••	•••••	WIND S	SPEED IN	KNOTS	•••••		•••••	• • • • • • •	• • • • • • •	• • • • • •	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL \$	MEAN WIND	MEDIAN WIND
(M) 350-010	1.2	.5	.2	******	•••••	• • • • • • •	•••••	• • • • • • •	•••••	• • • • • •	• • • • • • •	1.9	4.3	3.5
020-040	.6	.3										1.0	3.2	2.0
050-070	1.0	.8	.4									2.2	6.0	5.5
(B) 080-100	4.3	3.3	1.3									8.9	5.0	5.0
110-130	8.6	11.6	3.0									23.2	5.9	5.0
140-160	8.5	5.9	1.6	.2								16.2	5.0	4.0
(8) 170-190	4.1	2.0	.1									6.2	4.0	3.5
200-220	3.3	1.7										5.1	3.6	3.0
230-250	3.3	1.1	.1									4.5	3.7	4.0
(W) 260-280	4.7	2.4	.1									7.2	4.0	4.0
290-310	3.0	1.4										4.4	4.0	4.0
320-340	1.9	.5	.1	.1								2.7	4.1	2.0
VARIABLE	ı  I	• • • • • •	•••••	•••••		• • • • • • •				• • • • • • •	•••••	• • • • • • • •	• • • • • •	•••••
CALM	,,,,,,,,	(/////	'//////	'//////	//////	,,,,,,,,	//////	,,,,,,,	,,,,,,,,	//////	,,,,,,,,	16.5	/////	111111
TOTALS	44.5	31.5	6.9	.3								100.0	4.1	4.0
	,		•••											

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: AUG HOURS: 12-14

		283	1 10 01	,					PENTE	. AUG	HOON	3. 12-14	•	
	• • • • • • • •	• • • • • • •	•••••	•••••	WIND S	SPEED IN	KNOTS	•••••	•••••	•••••	•••••	• • • • • • • •		• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GE 65	TOTAL \$	MEAN WIND	MEDIAN WIND
(M) 350-010	1.2	.1	.1	•••••	•••••	• • • • • • •	• • • • • •	•••••	•••••	•••••	•••••	1.4	3.7	3.0
020-040	.3	.4	.2									1.0	5.9	6.0
050-070	.9	.2										1.1	3.8	3.0
(E) 080-100	1.2	1.1	.3									2.6	5.5	5.5
110-130	3.1	4.2	1.3	.1								8.7	6.1	6.0
140-160	4.3	3.8	1.3	.2								9.6	5.9	5.0
(S) 170-190	2.9	3.0			.1							6.0	5.0	5.0
200-220	4.7	3.4	.5	.1								8.8	4.9	4.0
230-250	7.1	7.8	.8									15.7	5.0	5.0
(W) 260-280	7.4	14.7	.8									22.9	5.5	5.0
290-310	4.7	8.2	.4									13.3	5.3	5.0
320-340	2.4	.8	.1	.1								3.3	4.3	4.0
VARIABLE	!	• • • • • •		• • • • • • •	•••••		•••••	•••••	•••••	•••••	•••••	• • • • • • •	· • • • • •	•••••
CALM	///////	,,,,,,		///////	//////	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	///////	///////	///////		·//////	5.6	/////	//////
TOTALS	40.2	47.7	5.8	.5	.1							100.0	5.0	5.0

CALM TOTALS

31.0 53.5

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: AUG HOURS: 15-17 ...... WIND SPEED IN KNOTS DIRECTION 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 CE 65 TOTAL MEAN MEDIAN (DEGREES) WIND WIND \* (N) 350-010 .2 .1 1.7 020-040 .4 -4 .2 1.0 6.8 6.5 050-070 .6 .6 5.0 .1 1.3 6.4 (E) 080-100 .8 .4 7.2 . 1 .1 .1 1.5 4.0 110-130 1.0 1.5 . 4 .2 3.1 6.8 6.0 140-160 1.5 3.3 1.1 6.0 6.4 6.0 (8) 170-190 1.1 1.9 .5 .1 3.6 7.0 6.0 200-220 1.0 1.7 .6 .7 7.8 3.9 7.0 230-250 6.0 9.8 1.0 . 1 16.8 5.6 6.0 (W) 260-280 10.8 23.0 3.3 37.2 6.1 6.0 290-310 5.6 9.3 1.8 16.7 5.8 5.0 .2 .1 320-340 1.4 .1 1.4 .1 3.5 6.9 5.0 ..... VARIABLE

TOTAL NUMBER OF OBSERVATIONS 839

100.0

5.9

6.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: AUG HOURS: 18-20 WIND SPEED IN KNOTS 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN DIRECTION 1-4 (DEGREES) WIND WIND 8 (N) 350-010 1.1 2.3 .6 .3 020-040 .5 .6 .6 .2 .2 2.0 9.8 9.0 050-070 .8 .5 .8 .3 .3 .2 2.7 10.9 10.0 (E) 080-100 .5 1.1 .8 .5 .2 .2 10.6 3.0 10.0 110-130 .9 .9 1.7 .2 3.7 8.4 9.5 140-160 1.8 1.7 .8 1.2 .2 .2 5.8 8.8 8.0 (S) 170-190 2.3 1.7 .5 4.4 5.2 4.0 200-220 .9 1.7 1.5 . 6 4.7 8.8 9.0 230-250 6.8 3.0 .8 10.7 4.6 4.0 (W) 260-280 11.3 7.6 .3 .2 4.4 4.0 290-310 8.7 8.5 .5 17.7 4.7 5.0 320-340 5.9 2.4 -6 9.0 4.3 4.0 •••••• VARIABLE CALM TOTALS 41.5 32.0 9.5 3.3 100.0 5.1 5.0

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7
MONTH: AUG HOURS: 21-23

		LS	T TO UI	C: + 7					MONTH	I: AUG	HOUR	S: 21-23	3	
•••••		• • • • • •		•••••			• • • • • • •	•••••		•••••	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		PEED IN 25-29		35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	3.1	1.9		•••••	• • • • • •	•••••	••••••	•••••	•••••	• • • • • •	•••••	5.0	4.5	4.0
020-040	.6	.6										1.3	5.5	5.5
050-070	.6		.6									1.3	6.0	6.0
(B) 080-100	3.8	1.9	2.5	1.3								9.4	7.1	6.0
110-130	2.5	4.4	1.3	.6	.6							9.4	8.3	8.0
140-160	1.9	1.9	.6	.6								5.0	7.9	8.0
(8) 170-190	1.9		.6	.6								3.1	6.8	2.0
200-220	3.1	1.3	.6	.6								5.7	6.7	4.0
230-250	2.5	1.9		.6								5.0	6.1	5.0
(W) 260-280	7.5	1.3										8.8	3.1	2.5
290-310	6.3	1.9		.6								8.8	4.8	4.0
320-340	6.9	1.3										8.2	3.1	2.0
VARIABLE	: 			•••••	•••••	•••••	• • • • • •		• • • • • •	•••••	•••••	• • • • • • •	• • • • • •	•••••
CALM	11111111	'/////	///////	///////	//////	//////	///////	///////	///////	///////	///////	28.9	/////	111111
TOTALS	40.7	18.4	6.2	4.9	.6							100.0	4.1	4.0
			TC	TAL NUM	BER OF	OBSERVA	RIONS	159						

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: AUG HOURS: ALL

	• • • • • • • • •	•••••			WIND S	PEED IN	KNOTS	******	•••••	•••••	******	• • • • • • •	• • • • • •	•••••
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)	i I	•••••	•••••	• • • • • • •	•••••	•••••	•••••	•••••	•••••	•••••	•••••	*	WIND	WIND
(N) 350-010	1.1	.6	.2	.1	.0	•••••		•••••	•••••	• • • • • •	•••••	2.1	5.4	4.0
020-040	1.0	.5	.2	.0			.0					1.7	5.0	4.0
050-070	2.0	.8	.3	.0	.0	.0						3.2	5.1	4.0
(E) 080-100	4.8	3.6	.6	.1	.0	.0						9.2	5.1	4.0
110-130	7.4	8.0	1.4	.1	.0							17.0	5.5	5.0
140-160	4.2	3.6	.9	.3	.0	.0						9.0	5.7	5.0
(S) 170-190	2.2	1.6	.2	.0	.0			.0				4.1	4.9	4.0
200-220	2.3 4.3	1.7	.4	.3								4.7	5.5	5.0
(W) 260-280	6.3	4.1 8.5	.4	.0	.0							8.9 15.7	5.0	5.0
290-310	4.0	4.9	.5	.0	.0							9.4	5.1	5.0
320-340	2.4	.9	.2	.1		.0		.0				3.5	4.5	4.0
	 :							•••••						
VARIABLE														
CALM	////////	/////	//////	//////	//////	//////	//////	///////	///////	///////	//////	11.6	/////	/////
TOTALS	42.0	38.8	6.1	1.0								100.0	4.7	5.0

# OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: AUG BOURS: ALL

CATEGORY A:			S THAN 1500 F AND/OR (0800 METERS)					•		•	en 200	
	A19191P111	GB 1/2 MILLS	(COMITAN UUOU)	BUT LE				METERS		CELLING	GE 200	
DIRECTION	1-4	5-9 10-14	WIND 8 15-19 20-24	SPEED IN 25-29		35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)						•••••				*	WIND	WIND
(N) 350-010												
020-040					6.7					6.7	30.0	25.0
050-070			6.7	6.7						13.3	24.0	24.0
(E) 080-100			6.7							6.7	24.0	24.0
110-130		33.3								33.3	10.8	10.0
140-160		6.7								6.7	14.0	14.0
(S) 170-190		6.7				6.7				13.3	23.0	18.0
200-220		6.7								6.7	12.0	12.0
230-250	6.7									6.7	1.0	1.0
(W) 260-280			6.7							6.7	20.0	20.0
290-310												
320-340												
VARIABLE	 			•••••	• • • • • • •		• • • • • •			•••••		• • • • • • •
CALM	<b> </b> ,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,	(11111)	,,,,,,,,	111111		,,,,,,,		,,,,,,	,,,,,,
								******	,,,,,,,,			
TOTALS	6.7	53.4	20.1	6.7	6.7	6.7				100.0	16.6	13.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91 HOURS: 03-05

LST TO UTC: + 7

MONTH: SEP

									PONIL	. OBF	HOOK	D. 03-0.	,	
************	•••••	• • • • • • •	•••••	•••••	WIND 8	SPEED IN	KNOTS	••••••	•••••			• • • • • • •		
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MBAN WIND	wind median
(N) 350-010	1.0	.2	•••••	•••••	•••••	•••••	•••••	••••••	•••••		• • • • • • •	1.2	3.6	3.0
020-040	1.2	.7	.2									2.1	5.2	4.0
050-070	8.1	.5										8.6	2.9	3.0
(E) 080-100	23.6	12.9	.7									37.1	4.3	4.0
110-130	14.5	11.9	1.4									27.9	4.9	4.0
140-160	1.4	.5	.5									2.4	5.0	4.0
(8) 170-190	.7	.7	.2									1.7	4.9	5.0
200-220	.5	.5	.2	.2								1.4	7.7	7.5
230-250	-5	1.0										1.4	5.2	5.0
(W) 260-280	.5											.5	3.0	3.0
290-310	1.0											1.0	2.0	2.0
320-340														
•••••	! :******	• • • • • •						•••••				• • • • • •		
VARIABLE														
CALM	///////	//////	//////	///////	//////	///////	//////	///////	//////	//////	///////	14.8	/////	/////
TOTALS	53.0	28.9	3.2	.2								100.0	3.8	4.0
			TO	TAL NUM	BER OF	OBSERVA	TIONS	420						

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTE: SEP BOURS: 06-08

	N. 755700	LS	T TO UT	C: + 7	DDIME	AL DI CIL	MIDDEN F	1.0	MONTE	: SEP	EOUR!	S: 06-08	, man a	•
•••••		• • • • • •	• • • • • • •	•••••	WIND S	PEED IN	RIOTS	• • • • • • •	•••••	•••••	•••••	• • • • • • •	•••••	•••••
Direction (Degrees)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GR 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.6	.6	.1	•••••	• • • • • • •	•••••	•••••	• • • • • • •	•••••	•••••	• • • • • • •	1.3	4.9	5.0
020-040	1.5	.6	.1									2.2	3.8	3.5
050-070	3.9	1.5	.3	.1								5.9	4.3	4.0
(E) 080-100	18.0	10.6	.4	.1								29.2	4.4	4.0
110-130	16.2	18.9	.8	.1								36.0	5.0	5.0
140-160	3.5	2.7	.1									6.3	4.3	4.0
(8) 170-190	1.0		.1									1.1	4.0	3.0
200-220	.7	.6										1.3	4.3	4.0
230-250	.3	.1										.4	4.0	4.0
(W) 260-280	.8	.3	.1									1.3	3.8	2.0
290-310	.4	.1										.6	3.8	3.5
320-340	1.0	.6	.1									1.7	5.3	4.0
VARIABLE	:   	• • • • • •	•••••	•••••	• • • • • •			• • • • • • •		• • • • • • •	• • • • • • •		•••••	•••••
CALM	////////	,,,,,,	//////	//////	//////	///////		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	///////	///////	1111111	12.8	/////	/////
TOTALS	47.9	36.6	2.1	.3								100.0	4.0	4.0
			_											

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: SEP HOURS: 09-11

													•	
	* * * * * * * * * *	• • • • • •		• • • • • • •	WIND S	PEED IN	KNOTS		•••••	•••••	•••••	• • • • • • •	• • • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MBAN WIND	MEDIAN WIND
(N) 350-010	.6	.1	.2	.2	•••••	•••••	•••••		•••••	• • • • • • •	•••••	1.1	7.2	6.0
020-040	.7	.7	.2	.1								1.7	6.5	6.0
050-070	1.0	.3	1.0	.2								2.6	7.7	9.0
(B) 080-100	3.5	2.6	2.3	.8	.1							9.3	7.3	5.5
110-130	8.9	12.3	2.7	.9	.1							24.9	6.2	6.0
140-160	7.2	9.1	.8									17.1	5.3	5.0
(8) 170-190	4.4	2.5	1.0									8.0	5.1	4.0
200-220	2.6	.8	.3	.1								3.9	4.5	3.0
230-250	2.8	1.6	.1									4.6	4.0	4.0
(W) 260-280	2.5	.5		.1								3.1	3.7	3.0
290-310	1.8	1.0	.1									3.0	3.8	3.0
320-340	.7	.3	.1		.1							1.3	6.7	4.0
VARIABLE	i • • • • • • • • • • • • • • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • •	•••••
CALM	,,,,,,,	,,,,,,	,,,,,,,,	,,,,,,,,	,,,,,,	,,,,,,,,,	,,,,,,,	,,,,,,,,,,	,,,,,,,	,,,,,,,,	,,,,,,,,	10 6	,,,,,,	,,,,,,
CALLET	'''''	.,,,,,					,,,,,,,		,,,,,,,	,,,,,,,		19.0	******	,,,,,,
TOTALS	36.7	31.8	8.8	2.4	.3							100.0	4.6	5.0

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7
MONTH: SEP HOURS: 12-14

		LS	T TO UI	e: + 7					MONTE	I: SEP	HOUR	S: 12-14		
• • • • • • • • • • • • • • • • • • • •		• • • • • •	•••••		WIND S	PEED IN	KNOTS		• • • • • • •	•••••	• • • • • • •	•••••	• • • • • •	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	.7	• • • • • • •	•••••	•••••	•••••	•••••	• • • • • • •		• • • • • •	•••••	1.9	4.2	4.0
020-040	.3	.3	.5									1.1	7.2	6.5
050-070	.6	.8	.3									1.7	6.5	7.0
(E) 080-100	1.1	1.0	1.8	.7	.1							4.8	8.9	10.0
110-130	2.7	4.1	2.4	.5	.2							9.9	7.6	8.0
140-160	3.0	3.3	.7	.1								7.1	5.8	6.0
(S) 170-190	3.8	4.0	1.6	.2								9.6	6.0	5.0
200-220	3.9	3.1	1.5	.5	.1							9.0	6.2	5.0
230-250	7.1	5.1	1.4									13.5	5.2	4.0
(W) 260-280	7.3	8.8	.9									17.0	5.2	5.0
290~310	5.1	4.1	.7									9.9	4.8	4.0
320-340	2.0	1.9	.3	.1								4.4	5.6	5.0
VARIABLE	·	•••••		•••••	•••••	•••••	• • • • • •	• • • • • • •		•••••	• • • • • •	•••••	•••••	•••••
CALM	////////	//////	///////	//////	//////	///////	//////	///////	///////	//////	///////	10.1	/////	//////
TOTALS	38.2	37.2	12.1	2.1	.4							100.0	5.3	5.0
			TC	YEAL NUM	BER OF	OBSERVA	TIONS	879						

C - 4 - 76

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7
HOWT: SEP HOURS: 15-17

		تابيا	1 10 01	C: ¥ /					HOMI	i: SEP	HOUR	5: 15-1 <i>i</i>	,	
***************************************	• • • • • • •	• • • • • • •	•••••		WIND 8	SPEED IN	KNOTS				• • • • • • •	• • • • • •	• • • • • •	
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
( <b>#</b> ) 350-010	.5	.9	<i>.</i> 6	• • • • • •	•••••	• • • • • • •	•••••	• • • • • •	•••••	•••••	• • • • • • •	2.0	7.1	6.0
020-040	.9											.9	3.4	4.0
050-070	.1	.3		.3								.6	10.0	9.0
(E) 080-100	.5	1.7	1.1	.4	.1							3.8	9.2	7.5
110-130	1.1	2.8	2.0	.1								6.1	7.5	8.0
140-160	1.7	1.9	.1	.3								4.0	5.9	5.0
(8) 170-190	1.0	1.0	1.3	.5								3.8	8.3	7.0
200-220	1.0	2.9	1.0	.4								5.4	7.6	7.0
230-250	5.2	7.3	1.5	.3								14.3	6.1	6.0
(W) 260-280	9.6	19.5	2.3	.1								31.5	5.8	6.0
290-310	7.2	9.8	1.3	.5								18.8	5.7	5.0
320-340	2.0	2.2	.1	.3								4.6	5.7	5.0
VARIABLE	1 • • • • • • • • • • • • • • • • • • •	• • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	•••••	•••••	•••••	•••••	•••••	• • • • • • • •	•••••	•••••
ANTINDIE														
CALM	///////	//////	//////	//////	//////	'//////	//////	'//////	///////	///////	'//////	4.1	/////	//////
TOTALS	30.8	50.3	11.3	3.2	.1							100.0	6.1	6.0

# PERCENTAGE PREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

DIRIION BORDS	n. /22/00	LS	T TO UT	C: + 7		na by can		•	MONTE	: SEP	HOUR	S: 18-20	)	-
**********	• • • • • • • •	•••••	• • • • • • •	•••••	WIND S	PEED IN	KNOTS	•••••	• • • • • • •	•••••	•••••	• • • • • • •	•••••	• • • • • • •
Direction (Degrees)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	WEDIAN WIND
(W) 350-010	1.5	.7	.8	•••••		••••••	••••		•••••	•••••	•••••	3.1	6.1	5.0
020-040	.8	1.0	.7									2.5	6.6	6.0
050-070	1.5	1.2	.3	.2								3.2	6.2	5.0
(E) 080-100	1.9	1.9	1.0	.2								4.9	6.7	6.0
110-130	2.9	1.5	.8	.3								5.6	6.1	4.0
140-160	.5	.7	.3	.2	.2							1.9	8.5	7.0
(S) 170-190	1.9	.7	.2	.3	.2							3.2	6.0	3.0
200-220	1.2	.7	1.2	.3								3.4	8.1	9.0
230-250	5.6	2.0	.3	.2								8.1	4.3	4.0
(W) 260-280	13.4	7.3	.7	.2								21.5	4.4	4.0
290-310	9.8	4.4	.7	.2								15.1	4.4	4.0
320-340	6.6	2.5	.5									9.7	4.3	4.0
VARIABLE	: 	•••••	•••••	•••••	• • • • • • •		• • • • • •		• • • • • •	•••••	•••••	• • • • • • •	• • • • • •	•••••
CALM	11111111	//////	///////	///////	///////	//////	///////	///////	//////	//////	///////	17.8	/////	/////
TOTALS	47.6	24.6	7.5	2.1	.4							100.0	4.2	4.0

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: SEP HOURS: 21-23

		LS	T TO UT	C: + 7					HINOM	: SEP	HOUR	S: 21-23	3	
•••••	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	WIND C	SPEED IN	EMOTES	•••••	•••••	• • • • • • •		• • • • • • • •	• • • • • •	• • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GB 65	TOTAL	mean Wind	MEDIAN WIND
(M) 350-010	1.4	2.1	.7	• • • • • •	******	• • • • • • •	•••••	••••••	•••••	•••••	•••••	4.2	6.0	6.5
020-040	4.9	.7										5.6	2.9	2.5
050-070	4.9	.7	1.4									7.0	4.8	2.5
(B) 080-100	6.3	3.5	.7									10.5	4.9	4.0
110-130	4.9	3.5	.7	.7								9.8	6.1	5.0
140-160	2.8	4.9										7.7	4.9	5.0
(8) 170-190	1.4		.7	.7								2.8	8.0	7.5
200-220	.7	2.1										2.8	6.0	6.0
230-250	1.4	1.4										2.8	5.0	5.0
(W) 260-280	2.8	1.4	.7									4.9	4.7	4.0
290-310	4.9	1.4										6.3	3.0	2.0
320-340	2.8	.7										3.5	3.4	3.0
VARIABLE	<u> </u> 	• • • • • •	•••••		•••••	· • • • • • •		•••••	•••••	• • • • • • •	••••••	• • • • • • •		•••••
CALM	1111111	//////	//////	//////	111111	///////	//////	///////	///////	//////	'''''	32.2	/////	/////
TOTALS	39.2	22.4	4.9	1.4								100.0	3.3	4.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: SEP HOURS: ALL WIND SPEED IN KNOTS DIRECTION 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN ...... (DEGREES) % WIND WIND (N) 350-010 .9 .6 .3 .0 1.8 5.7 5.0 020-040 .5 1.0 .3 .0 1.8 5.3 4.0 050-070 2.1 .7 .4 .1 3.4 5.2 4.0 (E) 080-100 6.6 4.3 1.3 .4 .1 12.8 5.5 4.0 110-130 7.1 8.3 1.8 .4 17.6 5.0 .1 5.8 140-160 3.2 3.5 .4 .1 .0 7.3 5.4 5.0 (8) 170-190 2.3 1.6 .8 .2 .0 5.0 6.0 5.0 .7 200-220 1.8 1.6 .2 .0 4.4 6.4 5.0 230-250 .6 7.5 3.8 3.1 .1 5.2 4.0 (W) 260-280 5.7 6.4 .7 .1 12.9 5.2 5.0 290-310 4.3 3.4 .5 .1 8.3 4.9 4.0 320-340 2.0 1.3 .2 .1 .0 5.2 4.0 **VARIABLE** CALM TOTALS 40.8 35.3 8.0 100.0 4.7 1.8 .2 5.0

OPERATING LOCAUSAPETAC, ASH			PERC	entage	-	PROM BO				D DIREC	TION VE	RSUS WII	ND SPEE	D
STATION NUMBER	R: 722786		TION N		LLIAMS	AFB/CHA	NDLER A	z.	PERIO			APR 81 - S: ALL	- MAR 9	1
•••••	• • • • • • • • • •	• • • • •	• • • • • •	• • • • • •	• • • • • •	•••••	• • • • • •		• • • • • •	• • • • • •	•••••	• • • • • • •		
CATEGORY A:	CEILING GE	200 B	UT LES	S THAN AND/OF		RET WIT	H VISIB	ILITY G	B 1/2 M	ILE (08	00 METE	RS).		
•	VISIBILITY	GB 1/	2 MILE	(0800	meters)	BUT LE	ss than	3 MILE	S (4800	METERS	HTIW (	CEILING	GB 200	FEET.
		• • • • •	•••••	• • • • • •	WIND S	PEED IN	KNOTS	• • • • • • •	• • • • • •	•••••	•••••	• • • • • • •	• • • • • •	
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GB 65	TOTAL	MEAN	MEDIAN
(DEGREES)	•											8		WIND
(N) 350-010		• • • • •	•••••	• • • • • •		•••••	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • •	•••••
020-040														
050-070			25.0									25.0	11.0	11.0
(E) 080-100														
110-130	<b>(</b> :	25.0	25.0									50.0	10.5	10.5
140-160	ļ													
(8) 170-190														
200-220														
230-250														
(W) 260-280														
290-310														
320-340	;	25.0										25.0	9.0	9.0
		• • • • •	• • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • •			• • • • • • •	• • • • • • •		
VARIABLE														
CALM	111111111	/////	//////	//////	///////	'//////	//////	//////	//////	//////	///////	.0	//////	//////
TOTALS	!	50.0	50.0									100.0	10.3	10.0
			10	TAL NUM	BER OF	OBSERVA	TIONS	4						

C - 4 - 81

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: OCT HOURS: 03-05

	• • • • • • • •	• • • • • •	• • • • • • •	•••••	WIND S	SPEED IN	KNOTS	•••••	• • • • • •	•••••	•••••	• • • • • • • •	•••••	•••••
Direction (Degrees)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	.5	•••••	•••••	• • • • • •	******		•••••	• • • • • • •	•••••		1.6	3.3	3.0
020-040	2.1	.5										2.6	3.4	3.0
050-070	6.6	2.6										9.2	3.2	3.0
(E) 080-100	27.9	9.4	.5									37.8	3.6	4.0
110-130	14.1	7.3	.2									21.6	4.0	4.0
140-160	2.1	1.4	.2									3.8	4.1	4.0
(8) 170-190	1.4											1.4	2.8	3.0
200-220	.2	1.2	.2									1.6	6.7	8.0
230-250	.2	.2										.5	5.0	5.0
(W) 260-280	.2	.2										.5	5.0	5.0
290-310	.7											.7	3.0	3.0
320-340	.9	.2										1.2	3.6	3.0
VARIABLE	:   	• • • • • •	• • • • • •	•••••	•••••	•••••	•••••		• • • • • • •		•••••		•••••	•••••
CALM	11111111	//////	///////	//////	//////	///////	//////	///////	//////	//////	///////	17.6	/////	//////
TOTALS	57.6	23.5	1.1									100.0	3.1	4.0

### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: OCT HOURS: 06-08

		LS	тто и	C: + 7					MONTE	i: OCT	HOUR	S: 06-08	3	
•••••	• • • • • • • •	• • • • • • •	•••••	• • • • • • •	WIND S	PEED IN	KNOTS		•••••	• • • • • • •		• • • • • • •	• • • • • •	• • • • • • • •
DIRECTION DEGREES)	1	5-9	10-14	15-19	26 -24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(M) 350-010	.7	. 4	•••••	• • • • • • •	• • • • • •	• • • • • • •	•••••	•••••	••••••		•••••	1.1	3.4	3.0
020-040	.9	.5	.1									1.6	3.9	2.5
050-070	5.7	1.5										7.1	3.2	3.0
(B) 080-100	18.2	7.3	.3									25.7	3.8	4.0
110-130	19.1	8.9	.1									28.1	4.0	4
140-160	5.7	2.7										8.3	3.8	4.0
(8) 170-190	1.2	.5										1.7	3.7	3.0
200–220	1.1	.5	.4									2.0	5.7	4.0
230-250	.4	.1										.5	2.5	2.0
(W) 260-280	.5		.1									.7	4.2	2.0
290-310	.7											.7	3.4	4.0
330-340	.5											.5	2.5	2.0
VARIABLE		• • • • • •	• • • • • •		•••••	• • • • • • •	•••••	•••••	•••••	•••••	•••••	• • • • • • •	• • • • • •	
CALM	11111111	'/////	//////	//////	//////	'''''	//////	'//////	//////	///////	1111111	21.8	/////	//////
TOTALS	54.7	22.4	1.0									100.0	3.0	4.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ LST TO UTC: + 7

PERIOD OF RECORD: APR 81 - MAR 91 HOURS: 09-11 MONTH: OCT

		LS	T TO UI	C: + 7					MONTH	: OCT	HOUR	s: 09-11	l	
	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • •	• • • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		PEED IN 25-29		35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	.2	.2	•••••	•••••	•••••	•••••	•••••	•••••	•••••	••••••	1.7	3.9	3.0
020-040	.7	.2	.3	.2								1.4	7.2	6.0
050-070	1.4	1.0	.4	.1								3.0	5.7	5.0
(E) 080-100	2.8	2.9	1.1	.4								7.2	6.7	6.0
110-130	10.0	7.5	1.3									18.8	4.9	4.0
140-160	5.8	4.5	.8									11.1	4.7	4.0
(S) 170-190	2.2	1.2	.3	.1								3.9	5.1	4.0
200-220	2.9	.9	.4									4.2	4.0	3.0
230-250	2.4	1.1	.1	.3								4.0	4.8	3.5
(W) 260-280	2.3	.6	.1									3.0	3.3	2.0
290-310	1.7	.4	.1									2.2	3.3	2.5
320-340	1.3	.2										1.5	3.1	3.0
VARIABLE	<u> </u> 		• • • • • • •	•••••	• • • • • •	• • • • • •			• • • • • •	•••••	• • • • • • •		• • • • • •	•••••
CALM	///////	//////	//////	///////	//////	'//////	//////	///////	///////	//////	'//////	38.2	/////	//////
TOTALS	34.7	20.7	5.1	1.1								100.0	3.0	4.0

TOTAL NUMBER OF OBSERVATIONS 909

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

		LS	T TO UT	C: + 7					MONTE	: OCT	HOUR	S: 12-14		
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		PEED IN 25-29		35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(DEGREES)	 - <i></i>											• • • • • • • • • • • • • • • • • • •		MIND
(N) 350-010	1.2	.9		.1								2.2	4.8	4.0
020-040	1.4	.3	.4									2.2	4.4	3.0
050-070	1.5	.8	.1	.1								2.5	4.8	4.0
(E) 080-100	1.8	.8	1.3	.3	.1							4.3	7.8	8.0
110-130	4.0	3.1	1.9									8.9	5.7	5.0
140-160	4.4	2.5	.7	.4								8.0	5.2	4.0
(S) 170-190	3.6	2.9	.7	.1								7.3	5.2	4.5
200-220	2.5	2.4	1.5	.2								6.7	6.3	6.0
230-250	6.5	2.4	.8	.1								9.8	4.2	3.0
(W) 260-280	8.7	2.5	.4	.1	.1							11.9	4.0	3.0
290-310	5.5	1.9	.2	.1								7.7	3.8	3.0
320-340	2.1	.7										2.8	3.4	3.0
VARIABLE	: 	• • • • • •	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	• • • • • • •	•••••	•••••
CAIM	1111111	//////	///////	///////	///////	,,,,,,,	///////	///////	///////	///////	///////	25.7	/////	/////
TOTALS	43.2	21.2	8.0	1.5	.2							100.0	3.7	4.0
				WILL BURN	men on	ODGERRIA	MT ON O	000						

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: OCT BOURS: 15-17

		LS	T TO UI	C: + 7					MONTE	: OCT	HOUR	S: 15-17	′	
•••••	• • • • • • • •	•••••	•••••		WIND S	PRED IN	KNOTS	•••••		•••••		•••••	• • • • • •	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN
(N) 350-010	1.2	1.1	.1	.1	•••••	•••••	•••••	•••••	•••••	•••••	•••••	2.6	5.4	5.0
020-040	.9	.6	.2		.1							1.9	6.4	5.0
050-070	.9	.4		.1								1.4	4.6	4.0
(E) 080-100	1.0	1.1	.7	.2								3.1	7.6	8.0
110-130	2.2	2.2	1.2	.4	.2							6.3	7.5	6.0
140-160	1.6	1.2	.1	.1								3.1	5.2	4.0
(8) 170-190	2.3	1.9										4.2	4.4	4.0
200-220	2.2	1.4	1.7	.4	.2							5.9	7.7	6.0
230-250	7.3	4.9	1.5									13.7	4.9	4.0
(W) 260-280	15.3	6.3	.9	.1								22.6	4.1	4.0
290-310	11.4	3.7	.6	.2	.1							16.0	4.3	3.5
320-340	3.5	2.2	.2									5.9	4.6	4.0
VARIABLE	! 	• • • • • •	•••••	•••••	• • • • • • •		• • • • • •			•••••	• • • • • • •	•••••	• • • • • •	•••••
CALM	///////	'/////	///////	//////	1111111	///////	///////	///////	///////	//////	'//////	13.3	/////	/////
TOTALS	49.8	27.0	7.2	1.6	.6							100.0	4.4	4.0
			TO.	TAT. NID	BKB OF	OBSERVA	TIONS	810						

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: OCT HOURS: 18-20

		LS	T TO UI	C: + 7					MONTE	: OCT	HOUR	S: 18-20	)	
•••••	• • • • • • • •	• • • • • • •	•••••					· · · · · · ·	• • • • • • •	• • • • • •		• • • • • • •	• • • • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	SPEED IN 25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	4.6	.5		2		• • • • • • •			•••••	• • • • • • •	•••••	5.3	3.2	2.0
												3.3	3.2	2.0
020-040	2.5	.9	.2									3.5	3.8	3.5
050-070	2.7	.7	.2	.2								3.7	4.4	2.0
(E) 080-100	1.9	.9	.7									3.5	5.5	3.0
110-130	2.1	1.2	.7									4.1	5.7	4.0
			_											
140-160	1.4	1.6	.5									3.5	5.4	6.0
(8) 170-190	1.1	.9										1.9	4.6	4.0
200-220	2.7	.9	1.8											
200-220	[ 2.7	.,	1.0									5.3	6.4	4.5
230-250	3.9	1.4	.4									5.7	3.9	3.0
(W) 260-280	8.7	2.3	.2									11.1	3.4	3.0
(", 200 200	""	*••	••									11.1	3.4	3.0
290-310	8.3	1.6	.5									10.4	3.6	2.0
320-340	3.2	.9										4.1	3.0	3.0
													•••	
VARIABLE		•••••	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •		• • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • •	• • • • • • •
**************************************														
CALM	11111111	'/////	//////	///////	///////	///////	///////	///////	///////	///////	//////	37.8	//////	/////
TOTALS	43.1	13.8	5.2	.4								100.0	2 6	3.0
	1 43.1	23.3	3.2	••								100.0	2.6	3.0

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO LTC: + 7
MONTE: OCT ROLES: 21-23

		LS	T TO UI	C: + 7					MONTE	: OCT	HOUR	s: 21-23	3	
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		SPEED IN 25-29		35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(550,555)	! 											• • • • • • •	WIND	******
(N) 350-010	1.2											1.2	2.0	2.0
020-040	1.2											1.2	3.0	3.0
050-070	4.8	1.2										6.0	3.2	2.0
(E) 080-100	8.4			1.2								9.6	3.6	2.0
110-130	13.3		1.2									14.5	3.4	3.0
140-160	3.6	1.2										4.8	3.3	3.0
(S) 170-190	4.8	1.2										6.0	3.8	3.0
200-220		2.4										2.4	8.0	8.0
230-250	2.4	1.2										3.6	3.7	3.0
(W) 260-280	2.4	1.2										3.6	4.7	3.0
290-310	2.4	1.2										3.6	4.7	4.0
320-340	1.2											1.2	2.0	2.0
VARIABLE	: 	•••••	• • • • • •	•••••	•••••	• • • • • • •	•••••	•••••	•••••	•••••	•••••	•••••	• • • • • •	•••••
CALM	,,,,,,,	//////	,,,,,,	//////	//////	///////	//////	///////	///////	//////	,,,,,,,	42.2	/////	/////
TOTALS	45.7	9.6	1.2	1.2								100.0	2.2	3.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

		LS	דט סד ד	:C: + 7			MORTH: OCT HOURS: ALL							
•••••	• • • • • • • •		• • • • • • •	• • • • • • •	WIND S	PEED IN	ENECYTRE	• • • • • • •	•••••	•••••	•••••	• • • • • • •	• • • • • •	• • • • • • • •
DIRECTION	1-4	5-9	10-14	15-19				35~39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
······································		• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •		•••••	• • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
(DEGREES)												<b></b>	WIND	WIND
(N) 350-010	1.6	.6	.1	.1								2.3	4.1	3.0
020-040	1.3	.5	.2	.0	.0							2.1	4.8	4.0
050-070	2.8	1.0	.1	.1								4.0	4.0	3.0
(E) 080-100	7.2	3.2	.8	.2	.0							11.4	4.7	4.0
110-130	8.3	4.9	1.0	.1	.0							14.4	4.8	4.0
140-160	3.8	2.5	.4	.1								6.8	4.7	4.0
(8) 170-190	2.2	1.4	.2	.0								3.8	4.8	4.0
200-220	2.0	1.3	1.0	.1	.0							4.5	6.2	5.0
230-250	3.8	1.9	.5	.1								6.2	4.5	4.0
(W) 260-280	6.3	2.1	.3	.0	.0							8.8	3.9	3.0
290-310	4.8	1.4	.2	.1	.0							6.5	3.9	3.0
320-340	1.9	.7	.0									2.7	3.8	3.0
VARIABLE	: 	· • • • • • •	•••••	•••••	•••••	•••••	•••••	•••••		• • • • • • •	••••••	• • • • • • •		•••••
CALM	11111111	//////	//////	///////	//////	///////	//////	///////	///////	///////	1111111	26.4	/////	/////
TOTALS	46.0	21.5	4.8	.9								100.0	3.3	4.0
			TO	TAL NUM	BER OF	OBSERVA	TIONS	4446						

C - 4 - 89

OPERATING LOCATION "A"

#### PERCENTAGE PREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED

USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS APB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7

MONTH: OCT HOURS: ALL ••••••••••••••••••••••••••••••••••••

#### CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS). AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

WIND SPEED IN KNOTS														
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(Degrees)			•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	8	WIND	WIND
(N) 350-010	]	• • • • • •	10.0	10.0	•••••	•••••	••••••	•••••	• • • • • •	•••••	•••••	20.0	13.0	13.0
020-040					10.0							10.0	20.0	20.0
050-070														
(E) 080-100		10.0										10.0	8.0	8.0
110-130														
140-160	10.0			20.0								30.0	11.3	15.0
(8) 170-190														
200-220														
230-250	İ													
(W) 260-280	}													
290-310		10.0			10.0							20.0	14.0	14.0
320-340		10.0										10.0	9.0	9.0
	 		• • • • • • • • • • • • • • • • • • • •	• • • • • • •	•••••	•••••	• • • • • •		• • • • • • •	• • • • • • •	•••••	•••••	• • • • • •	
VARIABLE														
CALM	///////	'/////	///////	///////	///////	//////	//////	///////	///////	//////	1111111	.0	//////	//////
TOTALS	10.0	30.0	10.0	30.0	20.0							100.0	12.5	13.0

# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

....

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7

TO UTC: + 7 MONTH: NOV HOURS: 03-05

		1.9	וט סדידי	C: + 7					MONTE	: NOV	HOUR	S: 03-05	•	
************	• • • • • • •			•••••	WIND S	SPEED IN	KNOTS	• • • • • • •	•••••	•••••		• • • • • • •		• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24		30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(W) 350-010	1.8	.5	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	2.3	3.4	4.0
020-040	3.8	1.0										4.9	3.6	3.0
050-070	5.9	2.6										8.4	3.4	3.0
(E) 080-100	29.4	8.7	.5	.3								38.9	3.7	4.0
110-130	10.5	6.4										16.9	4.0	4.0
140-160	1.5	1.0										2.6	3.5	3.0
(8) 170-190	.3	.8										1.0	6.5	7.0
200-220	1.0	.3	.5									1.8	5.4	4.0
230-250	.8	.3		.5								1.5	7.3	4.5
(W) 260-280														
290-310		.8										.8	6.3	6.0
320-340	.8											.8	3.0	3.0
VARIABLE	 • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •		• • • • • • • •			•••••	• • • • • • •	•••••	• • • • • • •		• • • • • • • • • • • • • • • • • • • •
ANKTUBIE														
CALM	//////	///////	///////	//////	//////	'//////	//////	//////	//////	//////	'//////	20.2	/////	/////
TOTALS	55.8	22.4	1.0	.8								100.0	3.1	4.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

		LS	T TO UT	c: + 7					MONTE	: NOV	HOUR	s: 06-08	3	
• • • • • • • • • • • • • • • • • • • •			• • • • • • •	•••••		SPEED IN		•••••	•••••		•••••	• • • • • • •	•••••	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	·•		•••••	•••••	•••••	• • • • • • •	•••••	•••••	•••••	•••••	•••••	.4	2.0	2.0
020-040	1.7	.3	.3									2.3	3.4	2.0
050-070	6.0	1.5										7.4	3.5	4.0
(B) 080-100	23.7	8.1										31.8	3.6	3.0
110-130	17.0	6.8	.6									24.4	3.8	4.0
140-160	3.5	1.0	.1									4.7	3.9	3.0
(8) 170-190	.9	.1	.4									1.5	5.4	3.5
200-220	.6	.7	.1									1.5	5.0	5.0
230-250	.3	.1	.4									.9	7.3	9.5
(W) 260-280	.3	.1										.4	4.0	4.0
290-310	.4											.4	3.0	3.0
320-340	.4			.1								.6	6.3	3.5
VARIABLE	: 	• • • • • •	• • • • • •	•••••			•••••	•••••	• • • • • • •	•••••	• • • • • • •	•••••	•••••	•••••
CALM	,,,,,,,	'/////	///////	///////	///////	///////	///////	///////	///////	1111111	11/1///	23.7	/////	/////
TOTALS	55.2	18.7	1.9	.1								100.0	2.9	3.0
	-													

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

		LS	T TO UI	C: + 7					MONTE	i: Nov	HOUR	S: 09-11	l	
•••••		• • • • • •	•••••	• • • • • • •	WTRD 9	PEED IN	KINAAL	• • • • • •	•••••	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GR 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	.7	• • • • • •	•••••	•••••	******	• • • • • • •	•••••	•••••	• • • • • • •	• • • • • •	•••••	.7	3.3	3.5
020-040	1.6	.1	.4	.2	.1							2.5	6.9	4.0
050-070	1.8	.6	.5									2.8	4.6	4.0
(E) 080-100	5.1	4.0	.6	.5	.1							10.2	5.6	5.0
110-130	8.5	7.6	.9	.2								17.3	5.0	5.0
140-160	5.6	2.6	.5									8.7	4.4	4.0
(8) 170-190	2.0	.8	.4	.1	.1							3.4	5.6	4.0
200-220	1.8	1.2	.5	.1								3.5	5.4	4.5
230-250	3.3	.5	.1									3.9	3.0	2.0
(W) 260-280	3.2	.6										3.8	3.5	3.0
290-310	2.5	.2										2.7	2.9	3.0
320-340	1.1	.4		.1								1.5	4.2	2.0
VARIABLE	! 	• • • • • •	•••••	•••••	•••••	• • • • • •	•••••	• • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • •	•••••
CALM	1111111	//////	///////	///////	//////	///////	//////	///////	///////	///////	///////	38.9	/////	111111
TOTALS	37.2	18.6	3.9	1.2	.3							100.0	2.9	4.0
			m-	7737 WIR	mpn 08	OBOEDIA	mr.cerc	050						

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: NOV HOURS: 12-14

		LS	T TO UI	:C: + 7					MONTE	: NOV	HOUR	S: 12-14	ı	
• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	•••••			• • • • • • •	•••••	• • • • • •	•••••	• • • • • • •	• • • • • •		• • • • • •
Direction (Degrees)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GE 65	TOTAL	M&AN WIND	MEDIAN WIND
(T) 350 010			• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • •		• • • • • • •	•••••		
(N) 350-010	2.0	1.4	.2									3.6	4.7	4.0
020-040	1.1	.6	.8	.1								2.6	6.3	5.0
050-070	1.1	1.1	.7	.4								3.2	7.4	6.0
(E) 080-100	1.2	1.4	1.5	.5	.1							4.7	8.4	8.0
110-130	1.5	1.9	1.1	.2								4.7	7.3	7.5
140-160	2.5	1.8	.9	.1	.1							5.4	6.1	5.0
(8) 170-190	2.1	1.1	.7	.2								4.1	6.0	4.0
200-220	2.5	2.9	.5	.4	.1							6.3	6.0	5.0
230-250	5.3	2.3	.9									8.5	4.7	4.0
(W) 260-280	5.8	2.0	1.3									9.1	4.7	4.0
290-310	6.8	2.5	.7		.1							10.1	4.1	3.0
320-340	4.3	1.1	.1									5.5	3.3	3.0
VARIABLE		• • • • • •	• • • • • •	•••••	•••••	•••••	• • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • • •	•••••	• • • • • •	•••••
CALM	11111111	//////	///////	///////	//////	'//////	///////	///////	'//////	//////	'//////	32.3	/////	111111
TOTALS	36.2	20.1	9.4	1.9	.4							100.0	3.7	4.0
			TC	YEAL NUP	BBER OF	OBSERVA	<b>TIONS</b>	855						

1

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: NOV HOURS: 15-17 WIND SPEED IN KNOTS 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN DIRECTION (DEGREES) WIND WIND (M) 350-010 1.7 1.7 020-040 .5 1.1 .3 .1 2.0 5.9 4.0 050-070 .7 .8 1.2 2.6 6.4 5.5 (E) 080-100 .8 2.4 1.3 .7 5.2 8.7 8.0 110-130 1.5 .9 .9 3.3 6.6 7.0 140-160 .5 .7 .1 .1 1.5 6.6 5.0 (8) 170-190 .1 1.3 1.2 .1 .3 .1 3.6 9.9 6.0 200-220 2.5 1.1 3.6 3.7 3.0 230-250 6.3 3.2 .7 10.2 4.6 4.0 (W) 260-280 13.6 4.9 2.0 .4 .3 21.2 4.8 4.0 290-310 10.6 3.8 .4 .1 14.9 3.9 3.0 320-340 5.0 1.6 6.6 3.5 3.0 VARIABLE CALM TOTALS 46.1 22.7 100.0 4.0 4.0 TOTAL NUMBER OF OBSERVATIONS 756

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## PERCENTAGE PREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

		LS	T TO UI	:: + 7					MONTE	: NOV	HOUR	S: 18-20	)	
•••••	•••••	•••••	• • • • • •	*****	WIND S	PEED IN	KNOTS	•••••	•••••	•••••	• • • • • • •	•••••	•••••	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	mean Wind	MEDIAN WIND
(N) 350-010	4.3	.4	• • • • • •	•••••		•••••	••••••	•••••	•••••	•••••	•••••	4.7	2.4	2.0
020-040	4.7	1.6	.2	.2								6.7	3.9	3.0
050-070	4.7	2.0	.4									7.1	3.8	3.0
(E) 080-100	3.6	.6	-4	.2	.2							4.9	4.9	3.0
110-130	2.0	1.4	1.6	.2								5.1	6.8	7.5
140-160	1.8	.2										2.0	3.1	2.5
(8) 170-190	.4	.2					.2					.8	10.5	4.5
200-220	1.6	.4										2.0	3.8	3.5
230-250	3.4	.4		.2								3.9	3.8	2.0
(W) 260-280	8.9	1.2	.2		.2							10.5	3.6	2.0
290-310	5.7	1.6										7.3	3.2	3.0
320-340	3.2	.2										3.4	2.7	2.0
VARIABLE	: !	•••••	• • • • • • •			•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••
CALM	////////	//////	///////	///////	///////	·//////		///////	,,,,,,,	///////		41.6	//////	111111
TOTALS	44.3	10.2	2.8	.8	.4		.2					100.0	2.3	3.0
		<u>-</u>						F 0.7					= : <b>-</b>	

# OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC, ASHEVILLE NC FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

		LS	T TO UT	C: + 7					MONTE	: NOV	HOUR	S: 21-2	3	
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •	•••••	•••••	• • • • • • •	WIND O	SPEED IN	KNOTS		• • • • • •			• • • • • • •	• • • • • • •	• • • • • • •
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19		25-29		35-39	40-49	50-64	GE 65	TOTAL %	mean Wind	MEDIAN WIND
(M) 350-010	4.5	•••••	•••••	•••••		• • • • • • •	•••••	•••••	• • • • • • •	•••	•••••	4.5	4.0	4.0
020-040	6.8		2.3									9.1	5.8	4.0
050-070	4.5	2.3										6.8	4.0	4.0
(E) 080-100	2.3											2.3	3.0	3.0
110~130	9.1	2.3										11.4	3.8	3.0
140-160		2.3										2.3	5.0	5.0
(S) 170-190	2.3											2.3	2.0	2.0
200-220	2.3											2.3	2.0	2.0
230-250														
(W) 260-280			2.3									2.3	12.0	12.0
290-310	2.3											2.3	3.0	3.0
320-340	2.3											2.3	2.0	2.0
	! :	•••••	• • • • • • •										• • • • • • •	
VARIABLE	1													
CALM	///////	//////	//////	//////	//////	///////	//////	///////	///////	///////	'//////	52.3	/////	/////
TOTALS	36.4	6.9	4.6									100.0	2.1	3.0

TOTAL NUMBER OF OBSERVATIONS 44

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## PERCENTAGE FREQUENCY OF OCCURRENCE SURPACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ , PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: NOV BOURS: ALL

		LS	T TO U	C: + 7					MONT	1: NOV	HOUR	S: ALL		
					WIND S	SPEED IN	KNOTS	• • • • • • •	• • • • • • •			• • • • • • •	• • • • • •	
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DECREES)		•••••	•••••	• • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	*	WIND	WIND
(N) 350-010	1.7	.7	.1	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	2.5	3.9	3.0
020-040	2.1	.6	.4	.1	.0							3.2	5.0	4.0
050-070	3.0	1.2	.4	.1								4.7	4.5	4.0
(E) 080-100	8.7	3.8	.8	.4	.1							13.8	4.7	4.0
110-130	6.6	4.1	.9	.1								11.7	4.8	4.0
140-160	2.7	1.3	.3	.0	.0							4.5	4.8	4.0
(8) 170-190	1.3	.7	.3	.1	.1	.0	.0					2.7	6.9	4.5
200-220	1.8	1.2	.3	.1	.0							3.4	5.1	4.0
230-250	3.5	1.3	.4	.1								5.3	4.5	4.0
(W) 260-280	5.5	1.6	.7	.1	.1							8.0	4.5	4.0
290-310	4.7	1.5	.2	.0	.0							6.5	3.8	3.0
320-340	2.6	.6	.0	.0								3.3	3.5	3.0
VARIABLE	! !	• • • • • •	•••••	• • • • • •		• • • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	•••••		•••••
	<b> </b>													
CALM	///////	//////	11/1///	'//////	7//////	'//////	7/////	1/////	(//////	'//////	'//////	30.5	//////	111111
TOTALS	44.2	18.6	4.8	1.1	.3							100.0	3.2	4.0

OPERATING LOCUUSAPETAC, ASH		PERCENTAGE FRE	-	TRRENCE SURF		CTION VERSUS W	IND SPEE	D
STATION NUMBER	R: 722786	STATION NAME: WILLI	LAMS AFB/CHANDI	LER AZ	PERIOD OF R MONTH: NOV	ECORD: APR 81 HOURS: ALL		1
••••••	• • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • •	• • • • • • •	• • • • • •
CATEGORY A:	CEILING GE	200 BUT LESS THAN 150 AND/OR	O FEET WITH V	ISIBILITY G	E 1/2 MILE (0	800 METERS).		
•	VISIBILITY	GE 1/2 MILE (0800 MET	Ters) but less	THAN 3 MILE	S (4800 METER	S) WITH CEILIN	G GE 200	FEET.
•••••	• • • • • • • • • • •				•••••	• • • • • • • • • • • • • • • •	• • • • • • •	• • • • • •
DIRECTION	1-4	5-9 10-14 15-19 20	IND SPEED IN KI D-24 25-29 30		40-49 50-64	GE 65 TOTA	L MEAN	MEDIAN
(DEGREES)						*	WIND	WIND
(N) 350-010			• • • • • • • • • • • • • • • • • • • •	••••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • • •
020-040								
050-070								
(E) 080-100	:							
110-130								
140-160								
(8) 170-190	20.0		40.0	0.0		80.0	21.8	25.0
200-220								
230-250								
(W) 260-280		20.0				20.0	18.0	18.0
290-310								
320-340								
			• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		
VARIABLE								
CALM	///////////////////////////////////////		,,,,,,,,,,,,,,	,,,,,,,,,,,	,,,,,,,,,,,,,	.0//////	/////	/////
TOTALS	20.0	20.0	40.0	0.09		100.0	21.0	25.0
		TOTAL NUMBER	R OF OBSERVATION	MS 5				

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: DEC HOURS: 03-05

									HONTH	· DEC	поот	D. 03-0.	•	
DIRECTION	1-4	5-9	10-14	15-19		SPEED IN 25-29		35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(Degrees)	1											*	WIND	WIND
(N) 350-010	.6	.3	.3	•••••		• • • • • • •	•••••		•••••	•••••	• • • • • • •	1.2	6.0	4.5
020-040	2.8	.3										3.1	2.5	2.0
050-070	7.7	2.8										10.4	3.4	3.0
(E) 080-100	24.2	10.7	.3									35.3	3.8	4.0
110-130	15.6	5.2										20.9	3.7	4.0
140-160	2.1	.9										3.1	3.6	2.0
(S) 17C-190	1.2		.6									1.8	5.0	3.0
200-220	.9	.3	.3									1.5	4.2	3.0
230-250	.6											.6	3.0	3.0
(W) 260-280		.9										.9	5.3	5.0
290-310	İ													
320-340	.6											.6	3.5	3.5
VARIABLE	: 	• • • • • •	•••••	•••••	•••••	• • • • • • •	• • • • • • •	•••••	•••••	•••••	• • • • • • •	•••••	• • • • • •	•••••
	////////	,,,,,,									,,,,,,,,	20 6	,,,,,	,,,,,,
CALM	''''	,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,	1111111	,,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,	1111111	20.6	//////	,,,,,,
TOTALS	56.3	21.4	1.5									100.0	3.0	4.0
			TO	TAL NUM	BER OF	OBSERVA	Tions	326						

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C - 4 - 100

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: DEC HOURS: 06-08

						SPEED IN			•••••	• • • • • •		• • • • • • •	• • • • • •	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.1	• • • • • •	.2	•••••	•••••	• • • • • • •	•••••	•••••	•••••	•••••	•••••	1.2	2.9	2.0
020-040	2.3	.2	.2									2.6	3.3	2.0
050-070	8.7	2.0	.3									10.9	3.5	3.0
(E) 080-100	24.0	5.3	.3									29.6	3.4	3.0
110-130	15.3	4.7	.3									20.4	3.6	3.0
140-160	3.6	.2	.2									4.0	3.1	2.5
(8) 170-190	.9	.6	.3	.2								2.0	6.2	5.0
200-220	.8	.6	.6									2.0	6.7	6.0
230-250	.9											.9	3.2	3.5
(W) 260-280	.8											.8	2.2	2.0
290310	.5	.2										.6	3.0	2.5
320-340	1.1	.2										1.2	3.5	3.0
VARIABLE	<u>:</u> ]	• • • • • •	•••••	•••••	•••••	• • • • • • •	•••••	•••••	*****	• • • • • •	•••••	•••••	•••••	•••••
CALM	///////	//////	///////	//////	//////	///////	//////	//////	//////	,,,,,,	,,,,,,	23.9	/////	/////
TOTALS	60.0	14.0	2.4	.2								100.0	2.7	3.0

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7
MONTH: DEC HOURS: 09-11

		LS	T TO UI	C: + 7				_	MONTE	: DEC	HOUR	8: 09-11		_
•••••	•••••	•••••	•••••	•••••	WIND S	PERD IN	KNOTS	•••••	• • • • • •	•••••	•••••	• • • • • • •	•••••	•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	.9	.2	•••••	•••••	******	• • • • • • •	• • • • • • •	• • • • • • •	•••••	•••••	2.0	5.1	5.0
020-040	2.1	.1	.2									2.4	3.2	2.0
050-070	2.4	.8	.1		.1							3.5	4.6	3.0
(E) 080-100	5.4	2.2	.8	.1		.1						8.7	5.1	4.0
110-130	10.9	5.9										16.8	4.1	4.0
140-160	5.8	1.5										7.3	3.4	3.0
(8) 170-190	2.7	.7	.1									3.5	3.6	3.0
200-220	2.4	1.9	.5									4.7	5.1	4.0
230-250	2.5	.9	.2									3.7	4.2	3.0
(W) 260-280	2.1	.5										2.5	3.1	2.0
290-310	1.6	.1										1.7	2.2	2.0
320-340	1.4	.5										1.9	3.1	2.5
VARIABLE	I	•••••	• • • • • •	•••••	•••••	•••••	• • • • • • •			•••••	•••••	• • • • • • •	•••••	•••••
CALM	////////	/////	//////	///////	//////	///////	///////	///////	,,,,,,,	///////	1111111	41.3	/////	/////
TOTALS	40.1	16.0	2.1	.1	.1	.1						100.0	2.4	4.0
	=		_											

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: DEC HOURS: 12-14

•••••	•••••	•••••		WIND S	PERD IN	KNOTS	•••••		•••••	• • • • • • •	• • • • • • •	• • • • • •	•••••
1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
1.5	1.0	.7	.1		• • • • • •	•••••	• • • • • • •	•••••	•••••	••••••	3.4	6.0	5.0
1.5	.8		.1								2.4	4.7	4.0
.8	.3	.1	.1	.1							1.5	6.6	4.0
1.3	.7	1.7	.8								4.5	8.9	10.0
2.5	1.6	.6									4.7	4.9	4.0
2.0	1.7	.1									3.8	4.9	4.0
2.7	.8	.1									3.6	4.0	4.0
4.5	1.7	.5									6.7	4.1	3.0
6.9	1.6	.6	.1								9.2	4.1	4.0
8.0	2.7	.7									11.3	4.0	3.5
6.8	2.0	.2	.1	.2							9.4	4.2	3.0
3.4	.8										4.2	3.0	2.0
•••••	•••••		•••••	•••••	•••••	•••••	•••••	•••••	•••••	••••••	• • • • • •	• • • • • •	•••••
///////	//////	///////	///////	//////	///////	//////	///////	//////	//////	///////	35.3	/////	//////
41.9	15.7	5.3	1.3	.3							100.0	3.0	4.0
	1.5 1.5 .8 1.3 2.5 2.0 2.7 4.5 6.9 8.0 6.8 3.4	1.5 1.0 1.5 .8 .8 .3 1.3 .7 2.5 1.6 2.0 1.7 2.7 .8 4.5 1.7 6.9 1.6 8.0 2.7 6.8 2.0 3.4 .8	1.5 1.0 .7  1.5 .8  .8 .3 .1  1.3 .7 1.7  2.5 1.6 .6  2.0 1.7 .1  2.7 .8 .1  4.5 1.7 .5  6.9 1.6 .6  8.0 2.7 .7  6.8 2.0 .2  3.4 .8	1.5 1.0 .7 .1  1.5 .8 .1  .8 .3 .1 .1  1.3 .7 1.7 .8  2.5 1.6 .6  2.0 1.7 .1  2.7 .8 .1  4.5 1.7 .5  6.9 1.6 .6 .1  8.0 2.7 .7  6.8 2.0 .2 .1  3.4 .8	1-4 5-9 10-14 15-19 20-24  1.5 1.0 .7 .1  1.5 .8 .1  .8 .3 .1 .1 .1  1.3 .7 1.7 .8  2.5 1.6 .6  2.0 1.7 .1  2.7 .8 .1  4.5 1.7 .5  6.9 1.6 .6 .1  8.0 2.7 .7  6.8 2.0 .2 .1 .2  3.4 .8	1-4 5-9 10-14 15-19 20-24 25-29  1.5 1.0 .7 .1  1.5 .8 .1  .8 .3 .1 .1 .1  1.3 .7 1.7 .8  2.5 1.6 .6  2.0 1.7 .1  2.7 .8 .1  4.5 1.7 .5  6.9 1.6 .6 .1  8.0 2.7 .7  6.8 2.0 .2 .1 .2  3.4 .8	1.5 1.0 .7 .1  1.5 .8 .1  .8 .3 .1 .1 .1  1.3 .7 1.7 .8  2.5 1.6 .6  2.0 1.7 .1  2.7 .8 .1  4.5 1.7 .5  6.9 1.6 .6 .1  8.0 2.7 .7  6.8 2.0 .2 .1 .2  3.4 .8	1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39  1.5 1.0 .7 .1  1.5 .8 .1  .8 .3 .1 .1 .1  1.3 .7 1.7 .8  2.5 1.6 .6  2.0 1.7 .1  2.7 .8 .1  4.5 1.7 .5  6.9 1.6 .6 .1  8.0 2.7 .7  6.8 2.0 .2 .1 .2  3.4 .8	1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49  1.5 1.0 .7 .1  1.5 .8 .1  .8 .3 .1 .1 .1  1.3 .7 1.7 .8  2.5 1.6 .6  2.0 1.7 .1  2.7 .8 .1  4.5 1.7 .5  6.9 1.6 .6 .1  8.0 2.7 .7  6.8 2.0 .2 .1 .2  3.4 .8	1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64  1.5 1.0 .7 .1  1.5 .8 .1  .8 .3 .1 .1 .1  1.3 .7 1.7 .8  2.5 1.6 .6  2.0 1.7 .1  2.7 .8 .1  4.5 1.7 .5  6.9 1.6 .6 .1  8.0 2.7 .7  6.8 2.0 .2 .1 .2  3.4 .8	1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65  1.5 1.0 .7 .1  1.5 .8 .1  .8 .3 .1 .1 .1  1.3 .7 1.7 .8  2.5 1.6 .6  2.0 1.7 .1  2.7 .8 .1  4.5 1.7 .5  6.9 1.6 .6 .1  8.0 2.7 .7  6.8 2.0 .2 .1 .2  3.4 .8	1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL  1.5 1.0 .7 .1 .3.4  1.5 .8 .1 .1 .1 .1 .1  1.5 1.3 .7 1.7 .8 .4.5  2.5 1.6 .6 .6 .4.7  2.0 1.7 .1 .3 .8  2.7 .8 .1 .3 .6  4.5 1.7 .5 .6 .6  4.5 1.7 .5 .6 .6  4.7 .9 .2  8.0 2.7 .7 .1 .1 .2 .9 .4  3.4 .8 .1 .2 .4  3.5 .3 .4 .8 .4  4.2	1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN WIND  1.5 1.0 .7 .1 3.4 6.0  1.5 .8 .1 .1 .1 .1 1.5 6.6  1.3 .7 1.7 .8 4.5 8.9  2.5 1.6 .6 4.7 4.9  2.0 1.7 .1 3.8 4.9  2.7 .8 .1 3.6 4.0  4.5 1.7 .5 6.7 4.1  6.9 1.6 .6 .1 9.2 4.1  8.0 2.7 .7 11.3 4.0  6.8 2.0 .2 .1 .2 9.4 4.2  3.4 .8 4.9

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: DEC BOURS: 15-17

		Tre	10 01	C: + /					MONTE	1: DEC	BOUR	9: 13-14	,	
•••••			•••••	•••••	WIND 8	SPEED IN	KNOTS	• • • • • • •				•••••		•••••
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	wind Wind	MEDIAN WIND
(N) 350-010	2.8	1.2	.8	•••••	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	4.8	4.8	4.0
020-040	1.7	1.2										3.0	4.0	3.5
050-070	.7	.9	.1		.3							2.0	8.0	6.0
(E) 080-100	.9	1.2	.9	.1	.1							3.4	8.0	7.0
110-130	1.5	2.0	.7	.3								4.4	6.8	7.0
140-160	1.2	.5	.3									2.0	4.8	4.0
(8) 170-190	1.2	.8										2.0	4.1	4.0
200-220	2.7	.7	.7	.1								4.2	4.9	3.0
230-250	6.7	1.3	.1									8.2	3.2	3.0
(W) 260~280	13.3	3.6	.3	.1								17.3	3.6	3.0
290-310	11.0	4.3	.9	.3								16.5	4.3	4.0
320-340	4.0	1.7	.1	.1								6.0	4.4	3.0
VARIABLE	: 	•••••		•••••	•••••	• • • • • • •	•••••	• • • • • •	• • • • • • •	• • • • • • •		•••••	• • • • • •	•••••
CALM	1111111	//////	///////	///////	//////	,,,,,,,	//////	//////	///////	///////	,,,,,,,	26.2	/////	//////
TOTALS	47.7	19.4	4.9	1.0	.4							100.0	3.3	4.0
			m-		MPD 0P	00 00 D8/1	mto#e	745						

TOTALS

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 MONTH: DEC HOURS: 18-20

LST TO UTC: + 7

WIND SPEED IN KNOTS DIRECTION 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TYTAL MEAN MEDIAN (DEGREES) \* WIND WIND (M) 350-010 4.2 1.0 5.2 3.0 2.0 020-040 4.0 .5 4.4 3.2 3.0 050-070 6.7 .7 .2 .2 7.9 3.5 2.5 (E) 080-100 7.2 .5 1.0 8.6 3.6 2.0 110-130 4.0 2.0 .2 6.2 4.1 4.0 140-160 1.0 1.0 3.0 3.0 (8) 170-190 1.5 1.5 2.0 2.0 200-220 1.7 .5 2.2 2.9 2.0 230-250 2.0 2.0 2.6 2.5 (W) 260-280 4.9 .5 .5 5.9 3.7 3.0 290-310 5.9 .2 6.2 3.0 3.0 320-340 2.0 .2 2.2 3.1 3.0 **VARIABLE** CALM

TOTAL NUMBER OF OBSERVATIONS 405

.2

1.4

45.1 6.6

100.0 1.8

3.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91 MONTH: DEC BOURS: 21-23

LST TO UTC: + 7

••••••		• • • • • •	• • • • • •	•••••		SPEED IN		• • • • • • •	•••••	•••••	•••••	•••••	• • • • • •	
Direction (Degrees)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN WIND	MEDIAN WIND
(N) 350-010	2.4	•••••	•••••	•••••	•••••	• • • • • • •	•••••	••••••	• • • • • •	•••••	•••••	2.4	4.0	4.0
020-040		4.8										4.8	6.0	6.0
050-070	4.8											4.8	3.0	3.0
(E) 080-100	33.3	4.8										38.1	2.8	2.0
110-130	14.3	7.1										21.4	3.4	3.0
140-160														
(S) 170-190														
200-220														
230-250														
(W) 260-280														
290-310	ļ													
320-340														
	1 	• • • • • •		•••••			• • • • • •							
VARIABLE														
CALM	///////	//////	'//////	///////	'/////	'//////	//////	///////	//////	///////	//////	28.6	/////	/////
TOTALS	54.8	16.7										100.0	2.3	3.0
			TO	YTAL NUP	BER OF	OBSERVA	TIONS	42						

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# PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: DEC HOURS: ALL

		LS	T 10 UI	C: + 7					MONTE	i: DEC	HOUR	S: ALL		
***********	• • • • • • • •	• • • • • •			WIND S	PEED IN	KNOTS	• • • • • • •			•••••			•••••
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MRAN	median
(DEGREES)	l I	*****	•••••				•••••	• • • • • • •	• • • • • • •	• • • • • • •	•••••	\$	WIND	WIND
(M) 350-010	1.7	.8	.4	.0	•••••	•••••	•••••	• • • • • •	•••••	• • • • • • •	•••••	3.0	4.7	4.0
020-040	2.2	.6	.1	.0								2.8	3.7	3.0
050-070	3.7	1.1	.2	.1	.1							5.1	4.2	3.0
(E) 080-100	8.8	2.8	.9	.2	.0	.0						12.8	4.4	4.0
110-130	7.7	3.6	.3	.1								11.7	4.1	4.0
140-160	2.8	.9	.1									3.9	3.8	4.0
(8) 170-190	1.8	.6	.2	.0								2.6	4.1	3.0
200-220	2.4	1.1	.5	.0								4.0	4.7	4.0
230-250	3.8	.8	.2	.0								4.8	3.7	3.0
(W) 260-280	5.4	1.5	.3	.0								7.2	3.7	3.0
290-310	4.7	1.3	.2	.1	.1							6.4	4.0	3.0
320-340	2.3	.7	.0	.0								3.0	3.6	3.0
VARIABLE	' !	•••••	•••••	•••••	•••••			• • • • • • •				• • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •
CALM	,,,,,,,	,,,,,,	//////	///////	//////	//////	//////	///////	///////	///////	,,,,,,,,	32.8	/////	/////
TOTALS	47.3	15.8	3.4	.5	.2							100.0	2.8	3.0

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7

T TO UTC: + 7 MONTH: DEC HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FRET WITH VISIBILITY GE 1/2 MILE (0800 METERS). AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

	WIND SPEED IN RNOTS DIRECTION   1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN													
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)		• • • • • •	•••••	•••••	•••••			•••••	• • • • • • •	•••••	• • • • • • •	*	WIND	WIND
(M) 350-010	2.9	•••••	• • • • • • •	•••••	•••••	•••••	•••••	•••••	•••••	•••••	• • • • • • •	2.9	1.0	1.0
020-040														
050-070	2.9											2.9	4.0	4.0
(E) 080-100														
110-130	8.6	2.9										11.4	4.0	2.5
140-160	2.9	2.9										5.7	6.0	6.0
(8) 170-190	11.4											11.4	2.5	2.5
200-220	5.7	2.9										8.6	3.0	2.0
230-250		2.9										2.9	8.0	8.0
(W) 260-280	2.9	5.7										8.6	5.0	5.0
290-310	<b>:</b>													
320-340	2.9											2.9	2.0	2.0
VARIABLE		• • • • • •	•••••	•••••	•••••	•••••	•••••	•••••	• • • • • •	•••••	• • • • • • •	•••••	•••••	•••••
CALM	///////	//////	//////	///////	//////	'''''	///////	///////	//////	//////	///////	42.9	/////	/////
TOTALS	40.2	17.3										100.0	2.2	3.0

TOTAL NUMBER OF OBSERVATIONS 35

C - 4 - 108

## PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: ALL BOURS: ALL

		LS	T 10 U1	C: + /					MONTE	i: Ahh	HOUR	S: ALL		
	• • • • • • • • •			•••••	WIND S	PEED IN	KNOTS							
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)	l	•••••	•••••	• • • • • •	•••••	•••••		• • • • • • •	• • • • • • •			*	WIND	WIND
(N) 350-010	1.5	.7	.2	.1	.0	.0		• • • • • • •	•••••	•••••	•••••	2.4	4.8	4.0
020-040	1.4	.5	.2	.1	.0		.0					2.2	4.8	4.0
050-070	2.6	.8	.2	.1	.0	.0	.0					3.7	4.4	3.0
(E) 080-100	6.7	3.8	.6	.2	.0	.0	.0					11.4	4.8	4.0
110–130	7.1	6.4	.9	.1	.0		.0					14.5	5.1	5.0
140-160	3.4	2.2	.5	.1	.0	.0	.0					6.2	5.0	4.0
(8) 170-190	2.2	1.2	.5	.1	.0	.0	.0	.0				4.1	5.5	4.0
200-220	2.5	1.9	.9	.2	.0	.0	.0					5.4	6.0	5.0
230-250	3.9	3.2	.9	.1	.0							8.1	5.4	5.0
(W) 260-280	5.5	5.1	.9	.1	.0							11.6	5.2	5.0
290-310	4.6	3.2	.5	.1	.0							8.4	4.8	4.0
320-340	2.5	1.1	.2	.0	.0	.0		.0				3.7	4.2	4.0
VARIABLE		•••••	•••••	•••••			• • • • • •	•••••	•••••	•••••	•••••	• • • • • • •	• • • • • •	•••••
CALM	,,,,,,,	//////	///////	///////	111111	///////	//////	///////	//////	///////	///////	18.4	/////	/////
TOTALS	43.9	30.1	6.5	1.3								100.0	4.1	4.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED

FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: ALL HOURS: ALL

••••••

#### CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FRET WITH VISIBILITY GE 1/2 MILE (0800 METERS). AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

	WIND SPEED IN KNOTS DIRECTION   1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-49 50-64 GE 65 TOTAL MEAN MEDIAN													
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MBAN	MEDIAN
(DEGREES)	l	• • • • • •	•••••	•••••	•••••	•••••	• • • • • •	•••••	•••••	• • • • • • •	•••••	*	WIND	WIND
(M) 350-010	.8	• • • • • •	.8	.8	•••••	•••••	•••••	•••••	•••••	• • • • • • •	•••••	2.3	9.0	11.0
020-040				.8	.8		.8					2.3	22.7	20.0
050-070	.8	.8	.8		.8	.8						3.8	13.8	11.0
(E) 080-100	.8	2.3			1.5		.8					5.3	14.9	9.0
110-130	3.8	2.3	4.5	.8								11.3	7.9	9.0
140-160	3.8	.8	.8	1.5	.8							7.5	9.3	6.0
(8) 170-190	3.8		.8	1.5	1.5	1.5	.8	.8				10.5	15.6	16.5
200-220	3.0	3.0	.8	.8	.8	.8						9.0	9.2	5.5
230-250	1.5	.8	.8	1.5	2.3							6.8	13.2	16.0
(W) 260-280	.8	1.5	.8	1.5	.8							5.3	11.7	12.0
290-310	2.3	2.3			.8							5.3	7.3	6.0
320-340	2.3	1.5			.8							4.5	8.0	6.5
VARIABLE	I 		• • • • • •	•••••	•••••	•••••	• • • • • •				•••••	•••••		•••••
CALM	///////	'''''	//////	'//////	'//////	'//////	///////	'//////	'//////	///////	'//////	26.3	//////	111111
TOTALS	23.7	15.3	10.1	9.2	10.9	3.1	2.4	.8				100.0	8.3	9.0

PPPPPPPP	AAAA	LAA	RRRR	RRRR	TTTTTTTTT	DDDDDDDD	
PPPPPPPPP	AAAAA	<b>LAAA</b>	RRRR	RRRRR	TTTTTTTTT	DDDDDDDDD	
PP PP	AA	AA	RR	RR	TT	DD DI	D
PP PP	AA	AA	RR	RR	TT	DD DI	D
PPPPPPPPP	AA	λλ	RRRR	RRRRR	TT	DD DI	D
PPPPPPPP	AAAAA	<b>LAAAA</b>	RRRR	RRRR	TT	DD DI	D
PP	AAAAAA	AAAA	RR	RR	TT	DD DI	D
PP	AA	λλ	RR	RR	TT	DD DI	D
PP	AA	λA	RR	RR	TT	DDDDDDDDD	
PP	λλ	λλ	RR	RR	TT	DDDDDDDDD	

#### PART D

#### CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

CRILING VS VISIBILITY -- PERCENT OCCURRENCE FREQUENCY (POF).

CREATED FROM HOURLY OBSERVATIONS, THIS SUMMARY IS A BIVARIATE DISTRIBUTION OF PERCENTAGE FREQUENCY BY CLASSES OF CEILING (FROM ZERO FEET TO 20,000 FEET-"NO CEILING" IS A SEPARATE CLASS) VERSUS VISIBILITY CLASSES (FROM ZERO MILES (METERS) TO GREATER THAN OR EQUAL TO 7 STATUTE MILES (11,200 METERS)). THE TABLES SUMMARIZE THE DATA AS FOLLOWS:

- BY RIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

BECAUSE OF THE CUMULATIVE NATURE OF THESE SUMMARIES, IT IS POSSIBLE TO DETERMINE THE PERCENTAGE OCCURRENCE FREQUENCY (POF) FOR ANY GIVEN CEILING AND/OR VISIBILITY LIMIT(S), BITHER SEPARATELY OR IN ANY COMBINATION. TOTALS PROGRESS FROM RIGHT TO LEFT AND FROM BOTTOM TO TOP. TO DETERMINE CEILING ALONE, REFER TO THE EXTREME RIGHT-HAND COLUMN (ZERO VISIBILITY). TO DETERMINE VISIBILITY ALONE, REFER TO THE BOTTOM ROW (ZERO CEILINGS). DETERMINE THE POF THAT MEETS OR EXCEEDS ANY GIVEN SET OF MAXIMA BY READING THE VALUE AT THE INTERSECTION OF THE APPROPRIATE CEILING ROW AND VISIBILITY COLUMN.

- NOTE 1: IN JANUARY 1968, METAR STATIONS BEGAN REPORTING VISIBILITIES TO 6 STATUTE
  MILES OR 9000 METERS. VALUES EXCREDING 9000 METERS ARE REPORTED AS "9999."
- NOTE 2: FOR OVERSEAS CIVILIAN STATIONS REPORTING "CAVOK", ALL CEILINGS GREATER THAN 5000 FEET APPEAR IN THE 5000 FEET CLASS.
- CONVERSIONS: 1 STATUTE MILE = 1,609.344 METERS = .868391 NAUTICAL MILES.
  FOR CONVENIENCE, THE CONVERSION OFTEN USED IS 1 STATUTE MILE = 1,600 METERS.
- SKY COVER--PERCENT OCCURRENCE FREQUENCY.

ALSO CREATED FROM HOURLY OBSERVATIONS, THIS SUMMARY GIVES PERCENTAGE OCCURRENCE FREQUENCY (POF) OF SKY COVER IN EIGHTHS FOR SYNOPTIC STATIONS, BUT AS CLEAR, SCATTERED, BROKEN, OVERCAST, PARTIALLY OBSCURRED, OR TOTALLY OBSCURRED FOR AIRWAYS STATIONS. FOR AIRWAYS STATIONS, THIS SUMMARY ALSO GIVES POF FOR SKY COVER GREATER THAN ONE-HALF (I.E., 6/10). DATA IS SUMMARIZED THE SAME AS FOR PREVIOUS TABLE.

NOTE 1. THESE SUMMARIES ARE NOT AVAILABLE FOR METAR REPORTING STATIONS.

NOTE 2. AIRWAYS STATIONS THAT HAVE REPORTED IN SYNOPTIC CODE HAVE HAD THEIR SYNOPTIC SKY COVER REPORTS CONVERTED AS FOLLOWS:

NOTE 3. "PARTIAL OBSCURATION" IS A SEPARATE CATEGORY NOT INCLUDED IN COMPUTATION OF "GREATER THAN 1/2" PERCENTAGES. "TOTAL OBSCURATIONS," HOWEVER, ARE INCLUDED.

# PERCENTAGE PREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JAN HOURS: 03-05

	LST TO UTC: + 7 MONTH: JAN HOURS: 03-05																
CRI	LING	• • • • • •			• • • • • • •	• • • • • • • • • • • • • • • • • • • •	 Visibili	TY IN :	STATUTE	MILES	• • • • • • •	• • • • • •	• • • • • • •		• • • • • •		• • • • • •
I		GE	GE	GE	GB	GB	GE	GE	GB	GE	GE	GB	GE	GE	GE	GE	GE
PK		7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
		• • • • • •					• • • • • • •										
HO (	CEIL	78.3	78.3	78.3	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	79.1	79.1	79.1	79.1
~P	20000	83.3	83.3	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	84.0	84.0	84.0	84.0
	18000	83.3	83.3	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	84.0	84.0	84.0	84.0
	16000	83.3	83.3	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	84.0	84.0	84.0	84.0
-	14000	85.2	85.2	85.2	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	86.0	86.0	86.0	86.0
	12000	88.2	88.2	88.4	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	89.2	89.4	89.4	89.4
GE	10000	89.9	89.9	90.1	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.1	91.4	91.4	91.4
GE	9000	90.4	90.4	90.6	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.6	91.9	91.9	91.9
GE	8000	92.6	92.6	92.9	93.3	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	94.1	94.3	94.3	94.3
GE	7000	93.1	93.1	93.3	93.8	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.6	94.8	94.8	94.8
Œ	6000	93.6	93.6	94.3	94.8	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.6	95.8	95.8	95.8
GE	5000	95.3	95.3	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.3	97.5	97.5	97.5
GE	4500	95.3	95.3	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.3	97.5	97.5	97.5
GE	4000	95.8	95.8	96.6	97.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.8	98.0	98.0	98.0
CE	3500	95.8	95.8	96.6	97.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.8	98.0	98.0	98.0
Œ	3000	96.1	96.1	96.8	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.0	98.3	98.3	98.3
CE	2500	96.1	96.1	96.8	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.0	98.3	98.3	98.3
CE	2000	96.1	96.1	96.8	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.0	98.3	98.3	98.3
GE	1800	96.6	96.6	97.3	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.5	98.8	98.8	98.8
Œ	1500	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.3	99.3
CE	1200	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.3	99.3
CE	1000	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.3	99.3
GE	900	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.3	99.3
<b>GE</b>	800	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.3	99.3
GE	700	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.3	99.3
Œ	600	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.3	99.3
CIE	500	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.3	99.3
Œ	400	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.3	99.3
GE	300	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.3	99.3
CE	200	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.5	99.5
CE	100	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.5	99.5
_	000	07.6	07.6		00.3	00.0		00.6			00.0			99.0	99.3	00 5	100.0
CE	ooo	97.0	97.0	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.3	99.5	100.0

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JAN HOURS: 06-08

LST TO UTC: + / MONTH: JAN HOURS: 05-08																	
CRI	LING			• • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •	VISIBILI	TY IN	STATIFIE	MTT.RR	• • • • • • •	• • • • • •		• • • • • • • •	• • • • • • •	• • • • • • •	•••••
1		GE	GE	GE	GE	GE	GE	GE .	GE	GE	GE	GE	GE	GE	GE	Œ	GE
FE	,	7	6	5	4	3	2 1/2	2		1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
							• • • • • • •									• • • • • •	
	i																
NO	CBIL	72.2	72.5	72.7	73.0	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
	20000	79.8	80.1	80.4	80.7	80.9	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
	18000	80.1	80.4	80.7	80.9	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
	16000	80.1	80.4	80.7	80.9	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
	14000	80.9	81.2	81.5	81.8	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE	12000	84.6	84.8	85.3	85.5	85.8	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
an		07.3	07.6						00.0								00.0
	10000	87.3	87.6	88.0	88.3	88.6	88.7	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE	9000	88.0	88.3	88.7	89.0	89.3	89.4	89.4	89.6	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8
GE	8000 7000	90.0	90.3	90.8	91.1	91.7	91.8	91.8	92.1	92.1	92.2	92.4	92.4	92.4	92.4	92.4	92.4
GE	6000	90.4	90.7	91.2	91.5 92.5	92.1	92.2	92.2	92.5	92.5 93.6	92.6	92.8	92.8	92.8	92.8	92.8	92.8
GE	6000	91.1	91.4	92.2	92.5	93.0	93.2	93.3	93.6	93.0	93.7	93.9	93.9	93.9	93.9	93.9	93.9
GR	5000	92.8	93.0	93.9	94.2	94.7	94.9	95.0	95.3	95.3	95.4	95.5	95.5	95.5	95.5	95.5	95.5
GE	4500	93.2	93.5	94.3	94.6	95.1	95.3	95.4	95.7	95.7	95.8	96.0	96.0	96.0	96.0	96.0	96.0
GE	4000	94.2	94.6	95.5	95.8	96.5	96.7	96.8	97.1	97.1	97.2	97.4	97.4	97.4	97.4	97.4	97.4
GE	3500	94.2	94.6	95.5	95.8	96.5	96.7	96.8	97.1	97.1	97.2	97.4	97.4	97.4	97.4	97.4	97.4
GE	3000	94.4	94.9	95.8	96.1	96.8	96.9	97.1	97.4	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6
			3113	2000	3011	20.0	3013	2		• • • • • • • • • • • • • • • • • • • •	2,10	3	2.00	2	3.00	3	J
GE	2500	94.6	95.0	96.0	96.4	97.1	97.2	97.4	97.6	97.6	97.8	97.9	97.9	97.9	97.9	97.9	97.9
GE	2000	94.9	95.3	96.2	96.7	97.4	97.5	97.6	97.9	97.9	98.3	98.5	98.5	98.6	98.6	98.6	98.6
GE	1800	94.9	95.3	96.2	96.7	97.4	97.5	97.6	97.9	97.9	98.3	98.5	98.5	98.6	98.6	98.6	98.6
GE	1500	95.0	95.4	96.4	96.8	97.5	97.6	97.8	98.2	98.2	98.6	98.7	98.7	98.9	98.9	98.9	98.9
GE	1200	95.0	95.4	96.4	96.8	97.5	97.6	97.8	98.2	98.2	98.6	98.7	98.7	98.9	98.9	98.9	98.9
GE	1000	95.3	95.7	96.7	97.1	97.8	97.9	98.1	98.5	98.5	98.9	99.0	99.0	99.2	99.2	99.2	99.2
GE	900	95.3	95.7	96.7	97.1	97.8	97.9	98.1	98.5	98.5	98.9	99.0	99.0	99.2	99.2	99.2	99.2
G <b>e</b>	800	95.3	95.7	96.7	97.1	97.8	97.9	98.1	98.5	98.5	98.9	99.0	99.0	99.2	99.2	99.2	99.2
GE	700	95.3	95.7	96.7	97.1	97.8	97.9	98.1	98.5	98.5	98.9	99.0	99.0	99.2	99.2	99.2	99.2
GE	600	95.3	95.7	96.7	97.1	97.8	97.9	98.1	98.5	98.5	98.9	99.0	99.0	99.2	99.2	99.2	99.2
	500		05.7						00.7								-0.4
GE		95.3	95.7	96.7	97.1	97.8	97.9	98.1	98.7	98.7	99.2	99.3	99.3	99.4	99.4	99.4	99.4
GE	400	95.3	95.7	96.7	97.1	97.8	97.9	98.1	98.7	98.7	99.2	99.3	99.3	99.4	99.4	99.4	99.4
GE	300 200	95.3 95.3	95.7 95.7	96.7 96.7	97.1 97.1	97.8 97.8	97.9 97.9	98.1 98.1	98.7 98.7	98.7 98.7	99.2 99.2	99.3 99.3	99.3 99.3	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4
CE	100	95.3	95.7 95.7	96.7	97.1	97.8	97.9 97.9		98.7	98.7	99.2	99.3					
WB	100	90.3	93./	90./	97.1	97.8	97.9	98.1	90./	90./	77.2	77.3	99.3	99.4	99.4	99.4	99.6
GE	000	95.3	95.7	96.7	97.1	97.8	97.9	98.1	98.7	98.7	99.2	99.3	99.3	99.4	99.4	99.4	100.0
•••				• • • • • • •	• • • • • •							•••••					

## PERCENTAGE PREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JAN HOURS: 09-11

					10 010	• • •						0.11	100100.	,,-II			
			• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •			• • • • • • • •		• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
	LING .						VISIBILI										
I		GE	GE	GE	Œ	GB	GE	GE	GE	GE	GE	GE	GE	GB	GE	GE	Œ
PE	et	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • •																	
MO (	CRIL	73.2	73.5	73.9	73.9	74.3	74.4	74.4	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.7
GE :	20000	80.9	81.2	81.6	81.6	82.0	82.1	82.1	82.1	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.5
CE	18000	81.3	81.7	82.0	82.0	82.5	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.9
	16000	81.5	81.8	82.1	82.1	82.6	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	83.0
	14000	82.9	83.2	83.6	83.6	84.0	84.1	84.1	84.1	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.5
	12000	85.4	85.7	86.0	86.0	86.5	86.6	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.9
<b>WE</b> .	12000	05.4	65.7	80.0	80.0	00.5	00.0	00.0	00.0	00.0	00.7	00.7	80.7	60.7	00.7	00.7	00.9
_					00.5												
	10000	88.9	89.3	89.6	89.6	90.1	90.2	90.2	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.5
CE	9000	89.4	89.7	90.1	90.1	90.5	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.9
Œ	8000	91.1	91.4	91.7	91.7	92.2	92.3	92.4	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.7
Œ	7000	91.7	92.1	92.5	92.5	93.0	93.2	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.6
Œ	6000	92.5	92.8	93.3	93.4	93.9	94.1	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.5
GE	5000	93.0	93.3	93.7	93.9	94.5	94.7	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.2
Œ	4500	93.2	93.5	94.0	94.1	94.7	95.0	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.4
Œ	4000	94.5	95.0	95.4	95.8	96.5	96.8	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.3
Œ	3500	94.9	95.3	95.8	96.1	96.9	97.1	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.7
GE	3000	95.0	95.4	95.9	96.2	97.0	97.2	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.8
GE	2500	95.2	95.6	96.1	96.4	97.2	97.4	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	98.0
GE	2000	95.3	95.9	96.4	96.9	97.8	98.0	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.8
GE	1800	95.3	95.9	96.4	96.9	97.8	98.0	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.8
GE	1500	95.5	96.1	96.8	97.2	98.1	98.3	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.1
Œ	1200	95.5	96.1	96.8	97.2	98.1	98.3	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.1
GD.	1200	93.3	30.I	30.0	37.2	90.1	30.3	30.0	90.0	30.0	30.3	30.3	30.3	90.9	90.9	30.3	33.1
Œ	1000	95.5	96.1	96.8	97.2	98.1	98.3	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.1
GE	900	95.6	96.2		97.2	98.2	98.4	98.9	98.9		99.0	99.0	99.0	99.0	99.0		99.2
				96.9	97.3					98.9						99.0	
GE	800	95.6	96.2	96.9		98.2	98.4	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.2
GE	700	95.6	96.2	96.9	97.3	98.2	98.4	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.2
Œ	600	95.6	96.2	96.9	97.3	98.3	98.5	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.4
Œ	500	95.6	96.2	96.9	97.3	98.3	98.5	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.4
Œ	400	95.6	96.2	96.9	97.3	98.3	98.5	99.0	99.1	99.1	99.2	99.2	99.2	99.3	99.3	99.3	99.6
Œ	300	95.6	96.2	96.9	97.3	98.3	98.5	99.0	99.1	99.1	99.2	99.2	99.2	99.3	99.3	99.3	99.6
Œ	200	95.6	96.2	96.9	97.3	98.3	98.5	99.0	99.1	99.1	99.2	99.2	99.2	99.3	99.3	99.3	99.6
GE	100	95.6	96.2	96.9	97.3	98.3	98.5	99.0	99.1	99.1	99.2	99.3	99.3	99.4	99.4	99.6	99.9
Œ	000	95.6	96.2	96.9	97.3	98.3	98.5	99.0	99.1	99.1	99.2	99.3	99.3	99.4	99.4	99.6	100.0
	<i></i>																

TOTAL NUMBER OF OBSERVATIONS 895

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# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JAN HOURS: 12-14

LST TO UTC: + 7 MONTH: JAN BOURS: 12-14																	
CRIL	ING	•••••	•••••		• • • • • • •		VISIBILI	TY IN	STATUTE	MILES	•••••	• • • • • •			•••••	• • • • • • •	•••••
IN	. ]	CZE.	CE	GE	GB	GE	GE	GE	GB	GE	GE	GE	GE	GE	GE	GE	GE
FEE	- T	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • • •			•••••	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	•••••			• • • • • •	• • • • • •	• • • • • • •			• • • • • •	•••••
NO C	BIL	73.2	73.5	73.8	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 2	0000	79.5	79.8	80.1	80.1	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 1	8000	80.7	81.0	81.4	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 1	6000	81.0	81.4	81.7	81.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE 1	4000	82.5	82.8	83.1	83.1	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE 1	2000	85.4	85.7	86.0	86.0	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 1	.0000	89.5	89.8	90.2	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE	9000	89.6	90.0	90.3	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
GE	8000	91.7	92.1	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE	7000	92.5	92.9	93.2	93.2	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE	6000	93.4	93.8	94.1	94.1	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE	5000	94.2	94.5	94.9	94.9	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE	4500	94.2	94.5	94.9	94.9	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE	4000	95.6	96.1	96.4	96.4	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GB	3500	96.3	96.8	97.1	97.1	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE	3000	96.8	97.2	97.5	97.5	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE	2500	97.3	97.8	98.1	98.1	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
	2000	97.4	97.9	98.2	98.3	98.9	98.9	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	1800	97.4	97.9	98.2	98.3	98.9	98.9	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	1500	97.5	98.0	98.3	98.4	99.0	99.0	99.2	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	1200	97.5	98.0	98.3	98.4	99.0	99.0	99.2	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	1000	97.5	98.0	98.3	98.4	99.0	99.0	99.2	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	900	97.5	98.0	98.3	98.4	99.0	99.0	99.2	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	800	97.5	98.0	98.3	98.4	99.0	99.0	99.2	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	700	97.5	98.0	98.3	98.4	99.0	99.0	99.2	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	600	97.5	98.0	98.3	98.4	99.0	99.0	99.3	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE	500	97.5	98.0	98.3	98.4	99.0	99.0	99.3	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE.	400	97.5	98.0	98.3	98.4	99.0	99.0	99.3	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
CE	300	97.5	98.0	98.3	98.4	99.0	99.0	99.3	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE	200	97.5	98.0	98.3	98.4	99.1	99.1	99.4	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GR	100	97.5	98.0	98.3	98.4	99.1	99.1	99.4	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	000	97.5	98.0	98.3	98.4	99.1	99.1	99.4	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JAN HOURS: 15-17

					10 010							OIL	LOUID.	13-17			
			• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
CRILII	NG ,						VISIBILI										
IN	- 1	GR	GE	GE	Œ	GE	GE	GE	GE	GE	GE	GB	GE	GE	GE	GE	Œ
PERT	- 1	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
	• • • •																
	- 1																
NO CE	IL	74.4	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
	- 1															-	
GB 200	ഫി	80.3	80.3	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
GE 180		81.0	81.0	81.4	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 16		81.0															
			81.0	81.4	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GB 140		82.8	82.8	83.2	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 120	000	84.9	84.9	85.3	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
	- 1																
GB 100		88.7	88.7	89.1	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GB 9	000	88.9	88.9	89.2	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GB 86	000	90.4	90.4	90.8	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 70	000	91.3	91.3	91.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
CE 60	000	92.6	92.6	93.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GB 50	000	94.0	94.0	94.4	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
	500	94.2	94.2	94.6	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
	000	95.8	95.9	96.5	97.2	97.3	97.3	97.4	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
	500	96.4	96.5	97.2	97.8	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
CE 30	ᅇ	96.9	97.1	97.7	98.3	98.7	98.7	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
	- 1																
GB 2	500	97.1	97.2	97.8	98.5	98.8	98.8	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
CE 20	000	97.1	97.2	97.8	98.5	99.0	99.0	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1	800	97.1	97.2	97.8	98.5	99.0	99.0	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1	500	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1:	200	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	I																
CE 10	000	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	900	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	800	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	700	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	- 1																
CE (	600	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	500	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	400	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE :	300	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB :	200	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE :	100	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	- 1																
GE (	000	97.1	97.2	97.8	98.5	99.2	99.2	99.6	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
							<del></del>										

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JAN BOURS: 18-20

				LST	TO UTC	: + 7					MONTH:	JAN	HOURS:	18-20			
CRI	CEILING VISIBILITY IN STATUTE MILES  IN GE GE GE GE GE GE GE GE GE GE GE GE GE																
		GR	GE	GR	GR			–			GR	GE	GR	GR	GE	GE	GE
				5	4	3	2 1/2	2				3/4	5/8	1/2	3/8	1/4	0
•••	•••••		•••••	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • •	•••••	•••••	• • • • • •	•••••	• • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •		•••••
Ю	CEIL	74.5	75.0	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GB	20000	80.2	80.8	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
Œ	18000	81.4	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
GE	16000	81.8	82.3	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
CE	14000	82.7	83.3	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
Œ	12000	84.1	84.6	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
Œ	10000	87.7	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE	9000	88.1	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE	8000	92.3	92.9	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE	7000	92.9	93.5	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
Œ	6000	94.4	95.0	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE	5000	95.8	96.4	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE	4500	95.8	96.4	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
Œ	4000	96.4	96.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE	3500	96.9	97.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE	3000	97.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	2500	97.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	2000	97.9	98.5	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE	1800	97.9	98.5	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE	1500	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	1200	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1000	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0				100.0	100.0
GE	500	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE .	400	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0			100.0	100.0	100.0
GE	300	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0			100.0	100.0	100.0
GE	200	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0			100.0	100.0	100.0
GE	100	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0			100.0	100.0	100.0
	·				_	-				_	_						
GE	000	97.9	98.5	99.4	99.4	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JAN HOURS: 21-23

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	LING	l me	and a	OTP.	œ				STATUTE		an a	an.	œ	O.E.	æ	an.	an.
	N	GB 7	GB 6	GB 5	GE 4	GE	GE 2 1/2	GE	GE	GE	GE	GE 3/4	GE 5/8	GE	GE	GE	GE
FB	ВТ	ı ′	0	9	•	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•••	• • • • • •		• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	•••••	• • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • •
MO	CRIL	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
		l															
	20000	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
Œ	18000	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
	16000	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
	14900	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
CE	12000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE	10000	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
CE	9000	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
GE	8000	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE	7000	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
CE	6000	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
		ł															
CE	5000	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
Œ	4500	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE	4000	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
Œ	3500	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
CE	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		l															
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
æ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0
						302.0							200.0			200.0	
GE	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JAN HOURS: ALL

	LST TO UTC: + / FORTH: JAN HOURS: ALL																
CRII	.TMG		•••••	• • • • • • •	• • • • • • •	••••••	 Visibili	TY IN :	STATIFFR	MILES		• • • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
IN		GE	GÉ	GE	GE	GE	GE	GB	GE	GE	GE	GE	GE	GE	GE	GIS.	GE
PER		7	6	5	4	3	2 1/2	2		1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
	·~ '				<del>.</del>		/-				<b>.</b>				3,0		
••••	i		•••••	• • • • • • •	• • • • • • •	• • • • • • •	•••••	•••••							• • • • • • •	• • • • • • •	•••••
110 C	RTT. │	73.8	74.1	74.4	74.5	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.8	74.8	74.8	74.8
		, , , , ,	, , , ,		,4.5		, 4.,								.4.0	.4.0	74.0
CP 2	20000	80.4	80.6	81.0	81.2	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.5
	8000	81.1	81.3	81.7	81.9	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.2
	6000	81.2	81.5	81.8	82.0	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3
	4000	82.6	82.9	83.2	83.4	83.6	83.6	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7
	2000	85.2	85.5	85.9	86.0	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.4
95 1	2000	65.2	63.3	03.9	00.0	80.2	00.3	60.3	00.3	00.5	00.5	00.5	00.5	00.5	80.5	00.3	00.4
CTP 1	10000	88.6	88.9	89.3	89.5	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.9	89.9	89.9
	9000	89.0	89.3	89.7	89.9	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.3	90.3	90.3	90.3
	8000	91.2	91.5	91.9	92.1	92.4	92.4	92.5	92.5	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.7
	7000	91.9	92.1	92.6	92.1	93.1	93.2	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.4
	6000	92.8	93.1	93.6	93.8	94.1	94.2	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.5	94.5	94.5
GD.	اممور	72.0	93.1	93.0	93.0	74.1	74.4	34.3	34.3	34.3	J4 .4	34.4	34.4	34.4	34.5	34.3	34.3
GE	5000	94.0	94.2	94.8	95.0	95.4	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7
	4500					95.4			95.6 95.7	95.6 95.7	95.8	95.8	95.8	95.7 95.8	95.7 95.8	95.7	95.7 95.9
		94.1	94.4	94.9	95.2		95.6	95.7									
	4000	95.3	95.7	96.3	96.6	97.0	97.1	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.5	97.5	97.5
GE	3500	95.7	96.1	96.7	97.0	97.5	97.5	97.7	97.7	97.7	97.8	97.8	97.8	97.9	97.9	97.9	97.9
GE	3000	96.1	96.5	97.1	97.4	97.9	98.0	98.2	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.4
			05.7														
GE	2500	96.3	96.7	97.3	97.6	98.1	98.2	98.4	98.4	98.4	98.5	98.6	98.6	98.6	98.6	98.6	98.7
GE GE	2000	96.4	96.8	97.5	97.8	98.4	98.5	98.7	98.8	98.8	99.0	99.0	99.0	99.0	99.1	99.1	99.1
		96.5	96.9	97.5	97.9	98.4	98.5	98.8	98.8	98.8	99.0	99.0	99.0	99.1	99.1	99.1	99.2
GB	1500	96.6	97.0	97.7	98.0	98.7	98.8	99.0	99.1	99.1	99.3	99.3	99.3	99.4	99.4	99.4	99.5
GE	1200	96.6	97.0	97.7	98.0	98.7	98.8	99.0	99.1	99.1	99.3	99.3	99.3	99.4	99.4	99.4	99.5
									00.0			00.4					
GE	1000	96.7	97.0	97.7	98.1	98.7	98.8	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.5	99.5	99.5
GE	900	96.7	97.1	97.7	98.1	98.8	98.8	99.1	99.2	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5
GE	800	96.7	97.1	97.7	98.1	98.8	98.8	99.1	99.2	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5
GE	700	96.7	97.1	97.7	98.1	98.8	98.8	99.1	99.2	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5
CE	600	96.7	97.1	97.7	98.1	98.8	98.8	99.1	99.3	99.3	99.5	99.5	99.5	99.5	99.6	99.6	99.6
GE	500	96.7	97.1	97.7	98.1	98.8	98.8	99.1	99.3	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.6
GE	400	96.7	97.1	97.7	98.1	98.8	98.8	99.1	99.3	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.7
GE	300	96.7	97.1	97.7	98.1	98.8	98.8	99.1	99.3	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7
GE	200	96.7	97.1	97.7	98.1	98.8	98.9	99.1	99.3	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.8
GE	100	96.7	97.1	97.7	98.1	98.8	98.9	99.1	99.3	99.3	99.6	99.6	99.6	99.7	99.7	99.8	99.9
GE	000	96.7	97.1	97.7	98.1	98.8	98.9	99.1	99.3	99.3	99.6	99.6	99.6	99.7	99.7	99.8	100.0
• • • •	• • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • •		• • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: FEB HOURS: 03-05

				191	10 010	. + /					MUNIE:	FAB	noors:	03-05			
			• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •				••••••	• • • • • • •	•••••		• • • • • •	• • • • • • •	• • • • • • •	• • • • • •
CEIL									STATUTE								
IN		GE	GE.	GB	GE	GB	Œ	GE	Œ	GE	GE	GB	Œ	GE	GE	GE	Œ
FEE	T	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • • •	••••	• • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •
NO C	BIL	76.8	76.8	76.8	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GB 2	0000	83.0	83.0	83.0	83.0	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 1	8000	83.0	83.0	83.0	83.0	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 1	6000	83.0	83.0	83.0	83.0	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	13.6	83.6
GE 1	4000	84.9	84.9	84.9	84.9	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	.4	85.4
GE 1:	2000	86.4	86.4	86.4	86.4	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	,	86.9
GE 1	0000	91.1	91.1	91.1	91.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
Œ	9000	91.1	91.1	91.1	91.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE .	8000 l	91.9	91.9	91.9	91.9	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE .	7000	91.9	91.9	91.9	91.9	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
	6000	92.4	92.4	92.4	92.4	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
												22.0	22.0	,,,,,	3310	20.0	35.0
GE	5000	94.8	94.8	94.8	94.8	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
	4500	94.8	94.8	94.8	94.8	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
	4000	96.3	96.3	96.3	96.3	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
	3500	97.9	97.9	97.9	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	3000	97.9	97.9	97.9	97.9	98.4	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
-	است	37.3	31.3	37.3	31.3	30.4	JU.4	33.0	33.0	33.0	33.0	33.0	99.0	33.0	33.0	33.0	33.0
GE :	2500	98.4	98.4	98.4	98.4	99.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	2000	98.4	98.4	98.4	98.4	99.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5		99.5
	1800	98.4	98.4	98.4	98.4	99.0	99.0	99.5	99.5			99.5	99.5			99.5	
										99.5	99.5	-		99.5	99.5	99.5	99.5
	1500	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1200	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_		00.4							100.0								
	1000	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	800	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	300	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	200	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	ŀ																
CE	000	98.4	98.4	99.0	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7
MONTH: FEB HOURS: 06-08

	LSI TO UTC: 7 / MONTH: FEB HOURS: U0-U0																
CBII	.TMG		• • • • • • •		• • • • • • •		 Visibili	ייי דון	······································	MTT.PQ	• • • • • •	• • • • • • •		• • • • • • •	•••••	• • • • • • •	•••••
II		Œ	GE	Œ	GE	Œ	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
FEI		7	6	5	4	3	2 1/2	2		1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
FDE	. ,	•	٠	,	•	,	2 1/2	-	1 1/2	1 1/4	•	3/4	3/0	1/2	3/6	1/4	U
••••			•••••	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	•••••	• • • • • • • •			•••••		• • • • • • •	•••••	•••••	•••••
NO C	·BII.	72.0	72.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
			,,,,,	,			, 2.5		,2.5	, 2.3		, 2.5	, , , ,	, 2.5	.2.5	, 2.5	, 2.5
CIR 7	20000	80.4	80.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
	8000	81.2	81.2	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
	6000	81.5	81.5	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
	4000	82.5	82.5	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
	2000	85.2	85.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
<b>U</b>		03.2	73.5	03.3	03.3	03.3	03.5	03.0	03.3	03.3	03.3	03.3	03.3	03.3	03.3	03.3	03.3
CIR 1	10000	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE	9000	91.2	91.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE	B000	92.5	92.5	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE	7000	93.3	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE	6000	93.6	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
	1000	33.0	,,,,,	34.0	34.0	34.0	34.0	34.0	24.0	34.0	34.0	34.0	34.0	24.0	34.0	34.0	54.0
GE	5000	94.6	94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE	4500	94.6	94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
CE	4000	96.3	96.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE	3500	96.7	96.7	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE	3000	97.6	97.8	98.2	98.2	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
	3000		3	,,,,	JU.2	3014	,,,,	30.3	30.3	30.3	50.5	30.3	30.3	30.3	30.3	,,,,	30.3
GE	2500	98.1	98.2	98.7	98.7	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GR	2000	98.2	98.4	98.8	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE	1800	98.2	98.4	98.8	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE	1500	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1200	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1000	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	900	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	800	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	700	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	600	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	500	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	400	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	300	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GB	200	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GB	000	99.0	99.1	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: FEB HOURS: 09-11

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CRIT				an.	œ		VISIBILI				_		_				_
IN		GE	^ <u>.</u>	GE	GE	GB	GIE	GE	GB	GE 1	GE	GE	GE T (0	GE	Œ	GE	GE
PEE	T	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
••••	•••••		• • • • • • •	• • • • • •	• • • • • •	• • • • • •	· • • • • • •	•••••	• • • • • • •		• • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	
NO C	EIL	73.2	73.2	73.2	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
	0000	81.9	81.9	81.9	82.1	82 . 1	82.1	82.1	82.1	82.1	82.1	P2.1	82.1	82.1	82.1	82.1	82.1
	8000	82.7	82.7	82.7	83.0	83.0	83.0	83 0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
-	6000	83.1	83.1	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
	4000	84.4	84.4	84.4	84.7	84 .7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	34.7	84.7
GB 1	2000	87.7	87.7	87.7	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
GB 1	.0000	90.0	90.0	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
Œ	9000	90.5	90.5	90.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
Œ	8000	92.0	92.0	92.1	92.4	92.4	92.4	92.4	92.	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE	7000	93.0	93.0	93.1	93.4	93.4	93.4	93.4	93.	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE	6000	94.1	94.1	94.2	94 .4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GR	5000	95.5	95.8	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
-	4500	95.7	95.9	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
	4000	96.5	96.7	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
	3500	96.7	97.0	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
Œ	3000	97.9	98.2	98.3	98.6	98.6	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
	3000		3012	,,,,	30.0	,,,,	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Œ	2500	98.4	28.7	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
Œ	2000	98.8	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
Œ	1800	98.8	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
Œ	1500	99.0	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
Œ	1200	99.0	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	1000	99.0	99.3	99.4	95.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	900	99.0	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	800	99.0	99.3	99.4	99.6	99.6	99.6	99.	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	700	99.0	99.3	99.4	99.6	39.8	99.8	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE	600	99.0	99.3	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
494.5	"	33.0	,,,,	33.4	33 7	99.0	33.0	39.0	33.0	79.0	<i>33.</i> 0	33.0	33.0	33.0	33.0	33.0	33.0
GE	500	99.0	99.3	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GB	400	99.0	99.3	99.4	99.6	99.8	99.8	99.8	99.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
Œ	300	99.0	99.3	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	9.82	99.8
GE	200	99.0	99.3	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	100.0
GE.	100	99.0	99.3	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	100.0
Œ	000	99.0	99.3	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	100.0

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: FEB HOURS: 12-14

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CEIL							VISIBILI					_					
IN	- 1	Œ	GE	GE	GE	GE	GE	GE	GB	GB.	GE	GE	GE	GE	GE	GE	GE
FEE	T	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
										• • • • • •							
	- 1																
NO C	BIL	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
	- 1																
GR 2	0000	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
	8000	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
	6000	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
	4000	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
									87.6	87.6	87.6	87.6			87.6	87.6	87.6
GE 1	2000	87.6	87.6	87.6	87.6	87.6	87.6	87.6	67.0	07.0	07.0	07.0	87.6	87.6	87.0	07.0	07.0
	0000	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
	9000	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
	8000	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE	7000	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE	6000	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE	5000	95.5	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE	4500	95.5	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE	4000	96.5	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GB	3500	96.7	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
	3000	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
								33.0									
GE	2500	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	2000	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1800	99.5	99.8	99.9	99.9	99.9			99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
							99.9	99.9									
	1500	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1200	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_	1000	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
95	100	22.0	33.0	,,,,	,,,,	22.3	22.3	22.3	,,,,	,,,,	200.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	000	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	اممما	33.0	77.0	33.3	77.7	33.3	77.7	33.3	77.7	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0

## PERCENTAGE PREQUENCY OF OCCURRENCE OF CRILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: FEB HOURS: 15-17

	CEILING VISIBILITY IN STATUTE MILES																
CEILIN	IG .						VISIBILI	TY IN	STATUTE	MILES							
IM	- 1	GE	Œ	GE	Œ	GE	GE	GB	GE	GE	GE	GE	GE	GE	Œ	GE	Œ
PEET	- I	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • • • • •	• • • •	• • • • • •	• • • • • • •		• • • • • •	• • • • • •		• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •		• • • • • •	• • • • • • •	• • • • • •
								<b></b>		<b>63</b> 3		<i></i> -		<i>c</i> n n			
MO CEI	. L	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
GE 200	امما	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 180		82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 160	- 1	83.0	83.0	93.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 140	- 1	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 120	- 1	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 100	000	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 90	100	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GB 80	00	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 70	100	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 60	00	95.5	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9
	- 1																
GB 50	00	97.3	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7
GE 45	00	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8
GE 40	100	98.2	98.2	98.5	98.5	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
	00	98.4	98.4	98.8	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5
GE 30	000	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
	00	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
	100	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
	00	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
	00	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 12	00	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
													100.0	100.0	100.0	100.0	400.0
	000	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
	100	98.8 98.8	98.8 98.8	99.2 99.2	99.2 99.2	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	100.0	100.0	100.0	100.0	100.0	100.0
	00	98.8				99.9					99.9	100.0	100.0	100.0	100.0	100.0	100.0
	00		98.8	99.2	99.2 99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0		100.0	100.0
GE 6	ויייי	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 5	00	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
	00	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
	100	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
	00	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
	00	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
- ab 1	~~	30.0	30.0	37.6	37.4	22.3	77.7	22.3	37.3	33.3	JJ.J	100.0	100.0	100.0	100.0	100.0	100.0
GE 0	000	98.8	98.8	99.2	99.2	99.9	99.9	99.9	99.9	99.9	90.9	100.0	100.0	100.0	100.0	100.0	100.0
	!				• • • • • • • •												

STATION NUMBER: 722786

#### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: APR 81 - MAR 91

100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

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99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

LST TO UTC: + 7 MONTH: FEB HOURS: 18-20 ...... CRILING VISIBILITY IN STATUTE MILES IN GE GE GE GE GE GE GE GE GE Œ GE GE Œ 6 2 FERT 7 5 4 3 2 1/2 1 1/2 1 1/4 1 3/4 5/8 1/2 3/8 1/4 0 NO CRIL 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70.9 GR 20000 82.5 82.5 82.5 82.5 82.5 82.5 82.5 82.5 82.5 82.5 82.5 82.5 82.5 82.5 82.5 82.5 GE 18000 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 GE 16000 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83.7 GR 14000 85.6 85.6 85.6 85.6 85.6 85.6 85.6 85.6 85.6 85.6 85.6 85.6 85.6 85.6 85.6 85.6 GE 12000 89.7 89.7 89.7 89.7 89.7 89.7 89.7 89.7 89.7 89.7 89.7 89.7 89.7 89.7 89.7 89.7 GE 10000 91.1 91.1 91.1 91.1 91.1 91.1 91.1 91.1 91.1 91.1 91.1 91.1 91.1 91.1 91.1 GE 9000 91.3 91.3 91.3 91.3 91.3 91.3 91.3 91.3 91.3 91.3 91.3 91.3 91.3 91.3 91.3 91.3 GE 8000 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 7000 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93.6 GE 6000 94.6 94.6 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 GE 5000 97.1 97.1 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 GR 4500 97.1 97.1 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 97.7 GE 4000 98.4 98.4 99.0 99.0 99.0 99.0 99.0 99.0 99.0 99.0 99.0 99.0 99.0 99.0 99.0 99.0 3500 99.0 99.0 99.6 99.6 99.6 99.6 GE 99.6 99.6 99.6 99.6 99.6 99.6 99.6 99.6 99.6 99.6 GE 3000 99.2 99.2 99.8 99.8 99.8 100.0 100.0 100.0 100.0 99.8 100.0 100.0 100.0 100.0 **GE 2500** 99.2 99.2 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 GB 2000 99.2 99.2 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 99.2 100.0 100.0 100.0 GR 1800 99.2 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 GE 1500 99.2 99.2 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 99.2 GE 1200 99.2 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 99.8 100.0 100.0 100.0 100.0 GB 1000 99.2 99.2 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 99.2 99.2 99.8 99.8 GE 900 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 GE 800 99.2 99.2 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 GE 700 99.2 99.2 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 99.2 99.2 CR 600 99.8 QQ.R 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

STATION NAME: WILLIAMS AFB/CHANDLER AZ

TOTAL NUMBER OF OBSERVATIONS 515

99.2

99.2

99.2

99.2

99.2

99.2

99.8

99.8

99.8

99.8

99.8

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GB

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GE

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GR

GR

500

400

300

200

100

100.0

100.0

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: FEB HOURS: 21-23

				1871	10 010	. , ,					MONTH:	r DD	noors.	21-23			
•••		• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •					• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •
	LING								STATUTE								
I		GB	Œ	GE	Œ	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	Œ
FE	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • •	• • • • • •		• • • • • •	• • • • • •													
NO:	CEIL	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GR	20000	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
	18000	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
	16000	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
	14000	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8			
		97.5	97.6												91.8	91.8	91.8
GE	12000	97.0	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
_																	
	10000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
Œ	9000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE	8000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE	7000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GR	6000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE	5000	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	4500	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	4000	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	3500	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3000	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
														20000	20010	10010	100.0
Œ	2500	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2000	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CIE	1200																
GE.	1200	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_																	
GB	1000	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	800	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	600	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	500	98.8	98.8	90.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	98.8	98.8	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
								200.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	•	<b></b>			• •												

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: FEB HOURS: ALL

				POL	TO UIC	: + /					MON IN :	FEB HO	OKS: AL	d)			
COL	 Ling		• • • • • • •		• • • • • • •	• • • • • • • •	 Visibili	nny TNI	·······		• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •
II		GE	GE	GE	GE	GE	GE GE	GE	GE	GE	GE	GE	GE	Œ	GE	GE	GE
PE		7	6	5	4	3	2 1/2	2		1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
1.13	- I					-	2 1/2	-	1 1/2	1 1/7	-	3/4	3,0	1/2	3/0	1/4	Ū
•••	Ī										••••	•••••				• • • • • • •	•••••
<b>NO</b> (	CRIL	72.0	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
	I																
GE :	20000	82.2	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GB :	18000	82.8	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE :	16000	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE :	14000	84.4	84.4	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE :	12000	87.6	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
	i																
GE :	10000	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE	9000	90.5	90.5	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
GB	8000	92.0	92.0	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE	7000	92.9	92.9	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE	6000	94.1	94.1	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5
GE	5000	95.9	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE	4500	95.9	96.0	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GB	4000	97.1	97.1	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7
CE	3500	97.5	97.6	97.8	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE	3000	98.4	98.5	98.8	98.8	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GB	2500	98.7	98.8	99.0	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
GE	2000	98.9	99.0	99.3	99.3	99.5	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GB	1800	98.9	99.0	99.3	99.3	99.5	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE	1500	99.1	99.2	99.5	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1200	99.1	99.2	99.5	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1000	99.1	00.0	99.5	99.5	99.8	99.8	99.9	~~ ~								
GE	900	99.1	99.2 99.2	99.5	99.5	99.8	99.8	99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
GE	800	99.1	99.2	99.5	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	700	99.1	99.2	99.5	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	600	99.1	99.2	99.5	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GB	000	33.1	33.2	33.3	99.0	33.0	33.0	22.2	33.3	22.2	33.3	33.3	99.9	99.9	99.9	99.9	99.9
GE	500	99.1	99.2	99.5	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	400	99.1	99.2	99.5	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	300	99.1	99.2	99.5	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GB	200	99.1	99.2	99.5	99.5	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.1	99.2	99.5	99.5	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
									,,,,			2000	100.0	100.0	100.0	100.0	100.0
GE	000	99.1	99.2	99.5	99.5	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
• • • •	• • • • •	• • • • • • •			• • • • • •	• • • • • • •	• • • • • • • •										

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAR HOURS: 03-05

CEIL	ING						VISIBIL	ITY IN	STATUTE	MILES							
IN	- 1	GE	Œ	GE	GE	GE	GE	GB	GE	GE	GE	GE	GE	GE	GE	GE	GE
PEE.	r	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
••••	• • • • •	• • • • • •	· • • • • •	• • • • • •	• • • • • •	•• • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •		• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •
	1																
NO C	BIL	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GB 20		83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 10		83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE 10		83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE 1	- 1	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 12	2000	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
																01.1	
GE 1		91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
	9000	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
	8000	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
	7000	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6 96.6	94.6	94.6	94.6	94.6	94.6
GE (	6000	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	90.0	96.6	96.6	96.6	96.6	96.6
GE S	5000	98.2	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
	4500	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
	4000	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	3500	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	3000	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>45</b> .	3000	33.0	33.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE :	2500	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	2000	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1800	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1500	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1200	99.6	99.6	100.0	100.0	100.0	100.0	100.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
									2000								
GE :	1000	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	700	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE .	500	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	400	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	300	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	200	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	100	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAR HOURS: 06-08

				DOI	10 010.	. • •					MONTH.	LIMIN	moorw.	00-00			
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CEIL		_							STATUTE								
IN		GE	GE	GE	GB	GE	GE	GE	GE	GE	GE	Œ	GE	GE	GE	GE	GE
PEE	T	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
	• • • • •	•••••								• • • • • •						• • • • • •	
NO C	BIL	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 2	0000	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 1	8000	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 1	6000	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GB 1		85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 1		87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
95 1	-000	07.4	07.4	07.4	07.4	07.4	07.4	07.4	07.4	07.4	07.4	07.4	07.4	07.4	07.4	07.4	07.4
GE 1	اممما	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
	9000	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
	B000	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
	7000	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE	6000	95.5	95.5	95.5	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
	5000	97.0	97.0	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE .	4500	97.0	97.0	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE	4000	97.7	97.7	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE	3500	97.7	97.7	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE	3000	98.2	98.2	99.0	99.1	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
	ł																
GE :	2500	98.3	98.3	99.1	99.2	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GB :	2000	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1500	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
-	1200	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		30.3	3013	JJ	22.4	,,,,	,,,,	100.0	10010	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	800	98.5	98.5	99.2	99.4				100.0	100.0							
GE						99.9	99.9	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	700	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GR	400	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	200	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	j																
GE	000	98.5	98.5	99.2	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAR HOURS: 09-11

				PSI	10 010	: + /					MONTH:	MAK	nours:	09-11			
CRIL			• • • • • •	• • • • • • •	• • • • • •	• • • • • • • •		• • • • • • •			• • • • • • •	•••••	• • • • • • •		• • • • • •	•••••	• • • • • •
			_		_				STATUTE		_				_		_
IN		GE	GE	GE	GE	GE	GE C	GE	GE (C	GE	GE	GB	GE	GE	GE	GE	Œ
FEE	er i	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
••••			• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
NO C	BIL	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
	0000	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
	8000	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
	6000	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
CE 1	4000	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 1	2000	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GB 1	.0000	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
Œ	9000	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
CE	8000	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
CE	7000	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
Œ	6000	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
	- 1																
GE	5000	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE	4500	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
	4000	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE	3500	98.0	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
Œ	3000	98.7	98.8	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
_		20	,,,,	,,,,	22.0	,,. <b>.</b>	,,,,	,,,,	33.2	33.2	JJ.2	33.2	,,,,	33.6	33.6	33.2	33.2
GE	2500	98.7	98.8	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
	2000	99.2	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	1800	99.2	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	1500	99.2	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	1200	99.2	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
40		33.2	33.4	33.0	33.0	33.0	33.0	77.0	33.0	33.0	33.0	33.0	33.0	33.0	99.0	33.0	33.0
GE	1000	99.2	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	900	99.2	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	800	99.2	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	700	99.2	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CER	600	99.2	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0			100.0
46	800	33.2	<b>33.4</b>	33.1	33. <i>1</i>	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CIE .	500	99.2	99.4	99.7	99.7	00 0	00.0	100.0	100.0	100 0	100.0	100 0	100.0	100 0	100.0	100.0	100.0
	1					99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	400	99.2	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.2	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CEE .	200	99.2	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	100	99.2	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_																	
Œ	000	99.2	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
• • • •																	

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAR HOURS: 12-14

				191	10 010	• /					MONTO:	mak	mouro:	12-14			
		•••••	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •				• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
CRILIN	9G I	_							STATUTE					_			
IN		GE .	GE	GE	GE	GB	GE	GE	GE	GE	GE	Œ	GE	GE	GE	GE	GE
PERT	ı	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • • • •	• • • :	• • • • • •		• • • • • • • •		• • • • • •	• • • • • • •	• • • • • •	• • • • • •		• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •		• • • • •
	- 1																
NO CE	IL	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
	- 1																
GE 200	000	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
GE 180	200	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
GE 160	000	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GB 140	200	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 120	oool	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 100	oool	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
	000	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
	000	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
	000	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
	000	92.9	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
<b>GE U</b> (	اس	74.7	74.7	93.1	33.1	93.1	93.1	33.1	33.1	93.1	33.1	33.1	33.1	93.1	93.1	93.1	93.1
GB 50	000	94.7	94.7	95.0	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
	500	95.3						95.7									
			95.3	95.6	95.6	95.7	95.7		95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
	000	97.2	97.2	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
	500	97.5	97.5	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GB 30	200	98.3	98.3	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
	500	98.4	98.4	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
	000	98.9	98.9	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	300	98.9	98.9	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	500	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 12	200	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	- 1																
_	200	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 9	900	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE 8	300	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GR 7	700	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 6	500	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	l																
GE 5	500	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 4	100	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 3	300	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 2	200	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE 1	100	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
•																	
GE C	000	99.0	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
										<b></b>	<b></b>				• • • •		

## PERCENTAGE PREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAR HOURS: 15-17

					10 010	• • •					FERTIL.	FEEL	noons.	13-11			
			• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •				*******	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
CRII							VISIBIL										
I		GE	GE	GE	CIE.	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
PK	r	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
				• • • • • •			• • • • • • •										
	l																
NO C	EIL	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GR 2	20000	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
	8000	83.1	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
	6000	83.2	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
	4000	84.5	84.6	84.7	84.7	84.7	84.7	84.7									
									84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 1	2000	86.6	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
	Ì																
GE 1	10000	89.1	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
Œ	9000	89.1	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
Œ	8000	90.1	90.2	90.3	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
Œ	7000	92.0	92.1	92.2	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
Œ	6000	94.4	94.6	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
Œ	5000	96.1	96.2	96.4	96.4	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
Œ	4500	96.4	96.6	96.8	96.8	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE	4000	97.9	98.0	98.2	98.2	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE	3500	98.0	98.1	98.3	98.3	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
CE	3000	98.7		99.1		99.4		99.5									
GE.	3000	90.7	98.8	99.1	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE	2500	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	2000	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	109.0	100.0
Œ	1200	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1000	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.C	100.0	100.0	100.0	100.0	100.0
GB	900	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	800	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GIB.	700	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	111			22.5	22.0		22.2		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	500	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	98.9	99.1	99.3	99.3	99.9		100.0									
. –	300						99.9		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	200	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	000	98.9	99.1	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAR HOURS: 18-20

				1.01	10 010	• • •					MONTH.	rent	noora.	10-20			
		• • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • • •					• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••
	LING			_					STATUTE						_		
I		GE	GB	GE	GE	GE	GE	GR	GE	GE	GE	GE	GE	GE	GE	GE	GE
PK	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • •	• • • • • •	•••••				• • • • • • •			• • • • • • •								
NO	CRIL	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE :	20000	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE	18000	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE	16000	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
	14000	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
	12000	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
02		05.0	03.0	05.5	03.3	0,.,	03.3	05.5	05.5	03.3	05.5	03.3	03.3	03.3	09.9	03.3	03.3
COD.	10000	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE	9000	92.5	92.5	92.7	92.7	92.7	92.7						92.7				
								92.7	92.7	92.7	92.7	92.7		92.7	92.7	92.7	92.7
GB	8000	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE	7000	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE	6000	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE	5000	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GB	4500	97.9	97. <del>9</del>	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
CE	4000	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
CE	3500	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE	3000	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE	2500	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	2000	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GR	1500	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1200	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	1200	33.0	33.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1000	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.8	99.8	100.0		100.0	100.0	100.0									
					100.0			-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	500	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	160.0	100.0	100.0
GE	000	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAR HOURS: 21-23

				ш	10 010	• • •					MONTH:	LIGHT	noora.	21-23			
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	LING								STATUTE								
I	7	GE	Œ	GE	Œ	GE	GE	GE	GB	GE	GE	GB	GE	GE	GE	GE	GE
PE	RT	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
	• • • • •	·															
NO (	CRIL	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
CR :	20000	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
	16000	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
	16000	86.8	86.8		86.8	86.8	86.8	86.8					86.8				
				86.8					86.8	86.8	86.8	86.8		86.8	86.8	86.8	86.8
	14000	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE :	12000	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GB :	10000	93.0	93.0	93.0	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
CE	9000	93.0	93.0	93.0	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
Œ	3000	93.8	93.8	93.8	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
Œ	7000	93.8	93.8	93.8	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
CE	6000	95.3	95.3	95.3	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
Œ	5000	97.7	97.7	97.7	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	93.4	98.4	98.4	98.4
GE	4500	97.7	97.7	97.7	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
Œ	4000	98.4	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
Œ	3500	98.4	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
	3000	99.2															
CE	3000	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_																	
GE	2500	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2000	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1800	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1500	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1200	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	900	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	700	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB.	600	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		33.2	,,,,,	,,	100.0	100.0	100.0	100.0	100.0	100.0	100.0	200.0	200.0	100.0	100.0	100.0	100.0
~	500	00 2	00.3	00.3	100.0	100 0	100 0	100 0	100 0	100 0	100.0	100 0	100.0	100 0	100 0	100 0	100 0
CE		99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	400	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	300	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	200	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	99.2	99.2	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAR HOURS: ALL

				nor	10 010	. , ,					MONTH:	MAIN DO	oro: Au				
CEI	LING		•••••		• • • • • • •	••••••	VISIBIL	TY IN	STATUTE	MILES	•••••	• • • • • • •		• • • • • • •	•••••	• • • • • • •	
1		CE	GE	Œ	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
PE		7	6	5	4	3	2 1/2	2	1 1/2			3/4	5/8	1/2	3/8	1/4	0
	,	, , , , , , , , , , , , , , , , , , ,			<u>.</u>		<b>-</b> -, -	- 			<u>-</u>			<b>-, -</b>			
	i																
NO	CEIL	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
																,	
GB	20000	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE	18000	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GB	16000	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE	14000	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE	12000	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE	10000	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE	9000	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE	8000	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE	7000	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE	6000	95.0	95.0	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE	5000	96.6	96.6	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE	4500	96.9	96.9	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE	4000	98.0	98.1	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
Œ	3500	98.1	98.2	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GB	3000	98.8	98.8	99.1	99.2	99.4	99.4	99.4	99.4	99.4	59.4	99.4	99.4	99.4	99.4	99.4	99.4
GB	2500	98.9	98.9	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GR	2000	99.1	99.1	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1800	99.1	99.1	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1500	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1200	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	1000	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	100	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
						<b></b> -											
GE	000	99.1	99.2	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: APR HOURS: 03-05

				Tes I	10 010	: + /					MUNTE:	APK	BOOKS:	03-05			
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	ILING	l an	_						STATUTE				_				
	EM .	GE	Œ	GE	GB	GB	GE .	GΣ	GE (	GE	GE	GE	GE.	GE	GE	GE	GE
P	BBT	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• •	• • • • • •	: • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • •
NO	CEIL	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	83.6	88.6	88.6	88.6	88.6	88.6
Œ	20000	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
Œ	18000	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE	16000	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92 : 8	92.8	92.9	92.8	92.8	92.8	92.8	92.8
GB	14000	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
Œ	12000	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
		ł															
GE	10000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE	9000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	01.4	98.4	98.4	98.4	98.4	98.4	99.4	98.4
Œ	8000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE	7000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.6	96
Œ	6000	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
		1															
Œ	5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.00.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.5	10 .0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE.	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
																	100.0
Œ	1200	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
~	1000		100.0	100.0	100.0	100.0	100.0	100 0	100.0	100.0	100 0	100 0	100.0	100.0	15 \ (		100 0
GE		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	17.1.6	100.0	100.0
GB		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.3	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.3	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	170.0
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### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: APR HOURS: 06-08

				nor	10 010	: + <i>/</i>					MOM TITE	AFK	HOURD:	00-00			
		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •				 WTT BO	• • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •
	LING	~	OP.	CIP.	an a				STATUTE GE	GE	GE	GE	GE	GE	GE	GE	GE
1		GB 7	GE 6	GB 5	GB 4	GB 3	GE CE	GE 2		1 1/4	9B 1	3/4	5/8	1/2		1/4	GE 0
FE	ET.	,	•	9	4	3	2 1/2	4	1 1/2	1 1/4	1	3/4	3/6	1/2	3/8	1/4	U
• • •			• • • • • • •	• • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • •	• • • • • •
									04.0			04.0		04.0			
MO	CEIL	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
	20000	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
	18000	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
	16000	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
	14000	90.6	90.6	90.6	90.6	<del>3</del> 0.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE	12000	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
	10000	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE	9000	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE	8000	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE	7000	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GB	6000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GB	5000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE	4500	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE	4000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GB	3500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	3000	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2500	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2000	99.9	99.9	99.9	99.9	100.0	100.0	100.0	<b>.00.0</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1800	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	1500	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1200	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	700	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	400	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	100	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
			<b></b>														
GE	000	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

			LST	TO UTC	: + 7					MONTH:	APR	HOURS:	09-11			
	• • • • • • •	• • • • • • •			• • • • • •	• • • • • • •		• • • • • • • • • • • • • • • • • • • •	••••••	• • • • • • •		• • • • • • •		• • • • • • •		• • • • • •
CRILING	i me	ATP.	æ	œ				STATUTE		_	O.D.		65	an.	<b>~</b> 17	æ
IN PEET	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GB 3/4	GE 5/8	GB 1/2	GE 3/8	GE 1/4	GE O
1991	'	•	,	•	,	2 1/2	4	1 1/2	1 1/4	-	3/4	3/0	1/2	3/6	1/4	U
•••••	i	•••••	•••••	• • • • • • •		••••••	•••••	•••••	•••••	• • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • •
MO CEIT	84.4	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 20000	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 18000	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 16000	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GR 14000	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 12000	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 10000 GE 9000	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 8000 GE 7000	97.9 97.9	98.1 98.1	98.1 98.1	98.1 98.1	98.1 98.1	98.1 98.1	98.1 98.1	98.1 98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 6000	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.1 98.8	98.1 98.8	98.1 98.8	98.1 98.8	98.1 98.8	98.1 98.8	98.1	98.1 98.8
<i>GB</i> 0000	30.0	30.0	30.0	30.0	90.0	90.0	30.0	90.0	70.0	90.0	90.0	90.0	90.0	90.0	98.8	90.8
GE 5000	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GB 4500	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 4000	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 3500	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
CE 3000	99.6	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	ļ															
GE 2500	99.6	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 2000	99.6	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 1800	99.6	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 1500	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1200	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1000	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1															
GE 500	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 400	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 100	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.6	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: APR HOURS: 12-14

				LST	TO UTC	: + 7					MONTH:	APR	HOURS:	12-14			
CRI	LING	• • • • • • •	• • • • • •		•••••		VISIBIL	 Tav tm	STATIFUE	MTT.PS	• • • • • • •	•••••	• • • • • • •	• • • • • • •	•••••	• • • • • • •	••••
	M	GE	GE	GE	GE	GE	GE	GB	GE	GE MITTES	GE	GB	GE	GE	GE	GE	GE
	BT	7	6	5	4	3	2 1/2	2	1 1/2			3/4	5/8	1/2	3/8	1/4	0
	•••••								•••••	• • • • • •			•••••				•••••
MO	CEIL	82.0	82.2	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE	20000	90.9	91.1	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE	18000	91.3	91.5	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE	16000	91.6	91.8	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
GE	14000	92.4	92.7	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE	12000	94.1	94.3	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE	10000	95.9	96.1	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE	9000	96.1	96.3	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE	8000	96.9	97.1	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE	7000	97.1	97.3	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE	6000	97.9	98.1	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE	5000	98.8	99.0	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE	4500	98.8	99.0	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE	4000	99.1	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE	3500	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	3000	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	l													_			
GE	2500	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2000	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1200	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1000	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	900	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	500	99.4	00.7	00.0	100.0	100.0	100 0	100.0	100.0	100.0	100.0			400.0			
GE		99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0
GE	400 300	99.4	99.7	99.8 99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.4	99.7 99.7	99.8	100.0	100.0	100.0 100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.4	99.7 99.7						100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	<b>99.4</b>	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	000	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
• • •				• • • • • •													

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: APR HOURS: 15-17

CRI	LING	•••••	• • • • • •	• • • • • •	• • • • • •		 Visirii		STATUTE	MILES	• • • • • •	•••••	•••••	•••••	• • • • • • •	•••••	•••••
	N.	GE	GE	GE	Œ	GE	GE	GE	GE	GE	Œ	GE	GE	GE	GE	GE	Œ
PE	BT	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
		, 		• • • • • • •													
NO	CRIL	78.0	78.1	78.5	78.5	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
_	20000	89.8	89.9	90.3	90.4	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
	18000	90.5	90.7	91.0	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
-	26000	90.7	90.8	91.2	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
	14000	91.7	91.8	92.2	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
Œ	12000	92.5	92.7	93.0	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
	10000	95.6	95.8	96.1	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
CE	9000	95.9	96.0	96.4	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE	8000	96.8	96.9	97.3	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE	7000	97.0	97.1	97.5	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
Œ	6000	97.8	97.9	98.3	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
_	5000	98.6	98.8	00.3	00.4	^^ ^		~~ ~		99.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0
GE GE	4500	98.6	98.8	99.3	99.4	99.8	99.8 99.8	99.8 99.8	99.8	_	99.8	99.8	99.8 99.8	99.8 99.8	99.8	99.8	99.8
GE	4000	98.6	98.8	99.3 99.3	99.4 99.4	99.8 99.8	99.8	99.8	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8	99.8	99.8 99.9	99.8 99.9	99.8 99.9
GE	3500	98.8	98.9	99.4	99.4	99.9	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	3000	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>W</b> E	3000	30.0	30.3	33.4	33.3	33.3	22.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	2500	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2000	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1800	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CER.	1200	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1000	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	900	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	800	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	700	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	500	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	400	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	200	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	98.8	98.9	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: APR HOURS: 18-20

Californ   Californ					101	IO UIC.						MONTH:	Arn	nouna:	10-20			
TREET   7 6 5 5 4 3 2 1/2 2 1 1/2 1 1/4 1 3/4 5/8 1/2 3/8 1/4 0					• • • • • • •	• • • • • •	• • • • • • •	•••••			•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •
FRET   7 6 5 5 4 3 2 1/2 2 1 1/2 1 1/4 1 3/4 5/6 1/2 3/6 1/4 0 0			_		_								_					
RO CRIL  79.3  90.3  90.								-										
CE   1000   90.3   9	FE	er i	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
CE   1000   90.3   9	• • •	• • • • • :	•••••	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	•••••	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •		• • • • • •	
CE   1000   90.3   9		l																
GE 16000 90.3 90.3 90.3 90.3 90.3 90.3 90.3 9	NO (	CRIL	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
GE 16000 90.3 90.3 90.3 90.3 90.3 90.3 90.3 9		ł																
GE 16000         90.3	GB :	20000	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 16000 90.3 90.3 90.3 90.3 90.3 90.3 90.3 9	GE :	18000	90.3		90.3			90.3										
GE 14000 92.0 92.0 92.0 92.0 92.0 92.0 92.0 9	GR	16000	90.3		90.3	90.3		90.3	90.3									
GE 1000 93.2 93.2 93.2 93.2 93.2 93.2 93.2 93.2										-								
GE 10000  95.4  96.3  96.3  96.3  96.3  96.3  96.3  96.3  96.3  96.6  96		1																
GE 8000 95.4 95.4 95.4 95.4 95.4 95.4 95.4 95.4	GD.		93.6	33.2	33.6	33.4	33.2	33.2	33.2	33.2	3.3 . 2	33.2	93.2	33.2	93.2	93.2	33.2	33.4
GE 8000 95.4 95.4 95.4 95.4 95.4 95.4 95.4 95.4	~	10000	05 4	05.4	05.4	OE #	05 4	05 4	OE 4	OE 4	05 4	05 4	05 4	05 4	05 4	05 4	05 4	05 4
GE 8000 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3																		
GE 7000 96.6 96.6 96.6 96.6 96.6 96.6 96.6 9																		
GE 5000 98.3 98.3 98.3 98.3 98.3 98.3 98.5 98.5 98.5 98.5 98.5 98.5 98.5 98.5																		
GE 5000 98.3 98.3 98.3 98.3 98.3 98.3 98.5 98.5 98.5 98.5 98.5 98.5 98.5 98.5																		
GE 4500 98.3 98.3 98.3 98.3 98.3 98.3 98.5 98.5 98.5 98.5 98.5 98.5 98.5 98.5	GB	6000	97.6	97.6	97.6	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 4500 98.3 98.3 98.3 98.3 98.3 98.3 98.5 98.5 98.5 98.5 98.5 98.5 98.5 98.5		- 1																
GE 4000 98.5 98.5 98.5 98.5 98.5 98.5 98.6 98.6 98.6 98.6 98.6 98.6 98.6 98.6	GB	5000	98.3	98.3	98.3	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 3500 98.5 98.5 98.5 98.5 98.5 98.6 98.6 98.6 98.6 98.6 98.6 98.6 98.6	GE	4500	98.3	98.3	98.3	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 2500 99.5 99.5 99.7 99.8 99.8 100.0 100	GE	4000	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 2500 99.5 99.5 99.7 99.8 99.8 100.0 100	GE	3500	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GB 2000 99.5 99.5 99.7 99.8 99.8 100.0 100	GE	3000	99.5	99.5	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 2000 99.5 99.5 99.7 99.8 99.8 100.0 100																		
GE 2000 99.5 99.5 99.7 99.8 99.8 100.0 100	GE	2500	99.5	99.5	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1800 99.5 99.5 99.7 99.8 99.8 100.0 100	GE	2000	99.5	99.5	99.7	99.8	99.8	100.0	100.0	100.0	100.0			100.0			100.0	
GE 1500 99.5 99.5 99.7 99.8 99.8 100.0 100	GR																	
GE 1200 99.5 99.5 99.7 99.8 99.8 100.0 100																		_
GE 1000 99.5 99.5 99.7 99.8 99.8 100.0 100																		
GE 900 99.5 99.5 99.7 99.8 99.8 100.0 100.			,,,,	,,,,	,,,,,	33.0	,,,,	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900 99.5 99.5 99.7 99.8 99.8 100.0 100.	CT	1000	00 5	00 5	00.7	00.0	00.0	100.0	100 0	100.0	100.0	100.0	100 0	100 0	100.0	100 0	100.0	100 0
GE 800 99.5 99.5 99.7 99.8 99.8 100.0 100.																		_
GE 700 99.5 99.5 99.7 99.8 99.8 100.0 100.																		
GE 500 99.5 99.5 99.7 99.8 99.8 100.0 100.																		_
GE 500 99.5 99.5 99.7 99.8 99.8 100.0 100.																		
GE 400 99.5 99.5 99.7 99.8 99.8 100.0 100.	GE	600	99.5	99.5	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400 99.5 99.5 99.7 99.8 99.8 100.0 100.																		
GE 300 99.5 99.5 99.7 99.8 99.8 100.0 100.																		
GE 200 99.5 99.5 99.7 99.8 99.8 100.0 100.														100.0	100.0	100.0	100.0	100.0
GE 100 99.5 99.7 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	GE		99.5	99.5		99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	GE	200	99.5	99.5	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000 99.5 99.7 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	CE	100	99.5	99.5	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000 99.5 99.5 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0		]																
·	GE	000	99.5	99.5	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		<del>.</del>																

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: APR HOURS: 21-23

	LING	• • • • • •	• • • • • • •	•••••	• • • • • • •	•••••			STATUTE	MTT DO	• • • • • •	•••••	• • • • • • •	• • • • • • •	•••••	• • • • • • •	•••••
	IN FDTWG	l GE	Œ	CTP.	Œ	GR	GE ATSTRIP	GE	GE STWINIE	GE	œ	GE	GE	GE	Œ	GE	œ
	KET	7	<u>чь</u> 6	GB 5	4	3	2 1/2		1 1/2		GE 1	3/4	5/8	1/2	3/8	1/4	GE O
	PB.T.	1 '	0	3	•	3	2 1/2	2	1 1/2	1 1/4	1	3/4	3/6	1/2	3/6	1/4	U
••	• • • • • •	 I	• • • • • • •	•••••	• • • • • •		• • • • • • •	• • • • • •	• • • • • • • •	• • • • • • •		•••••		•••••	• • • • • • •	•••••	
MO	CRIL	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
Œ	20000	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
	18000	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
	16000	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
Œ	14000	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
Œ	12000	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
		İ															
Œ	10000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
Œ	9000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
Œ	8000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
Œ	7000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
Œ	6000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
		ŀ															
Œ	5000	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
Œ	4500	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
CE	4000	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
Œ	3500	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		l															
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		l															
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
					100 0											100.0	
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE.		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	1,00 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
will,	300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
••	• • • • • •	. <i>.</i>	• • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • •

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: APR HOURS: ALL

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CRII							VISIBIL	ITY IN	STATUTE	MILES							
I	1 ]	Œ	GE	GE	GE	Œ	GE	GE	GE	GE	GE	Œ	GE	GE	GE	GE	GE
FRI	Tr.	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
									•								
NO C	<b>TETT</b>	82.7	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
	-514	02.7	04.0	02.3	03.0	03.0	03.0	03.0	03.0	63.0	65.0	63.0	63.0	63.0	63.0	65.0	63.0
	0000	90.8	90.9	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
	8000	91.1	91.2	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 1	6000	91.2	91.3	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 1	4000	92.0	92.2	92.2	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GB 1	2000	93.4	93.5	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GB 1	0000	95.9	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE	9000	96.1	96.2	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE	8000	97.0	97.1	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GB	7000	97.2	97.3	97.4	97.4	97.5	97.5	97.5	97.5			97.5	97.5				
										97.5	97.5			97.5	97.5	97.5	97.5
GE	6000	98.1	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	1																
GB	5000	98.9	99.0	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE	4500	99.0	99.1	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE	4000	99.2	99.3	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	3500	99.3	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE	3000	99.5	99.6	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	2500	99.5	99.6	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CR	2000	99.5	99.6	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1800	99.5	99.6	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	99.5				99.9											
			99.6	99.7	99.8	-	100.0	100.0	100.C	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1200	99.5	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	- 1																
	1000	99.5	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.5	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.5	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.5	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.5	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	99.5	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.5	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.5	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.5	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
																	100.0
GE	100	99.5	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	000	99.5	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAY HOURS: 03-05

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	LING								STATUTE								
I		GE	Œ	GE	Œ	GE	Œ	GB	GE	GE	GE	GE	GB	GE	GE.	GE	Œ
PE	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
			• • • • • •				• • • • • •										
		Ì															
NO (	CRIL	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
		l															
CER :	20000	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
	18000	95.7	95.7	95.7	95.7	75.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
	16000	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
	14000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE .	12000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
		۔۔ ۔															
	10000	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
Œ	9000	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
Œ	8000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
Œ	7000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
Œ	6000	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
		l															
GE	5000	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
CE	4500	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE	4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	2000	*****	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100 0	100 0	100 0	100 0
		100.0	100.0	100.0	100.0	100.0						-		100.0	100.0	100.0	100.0
GE							100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		Į.															
GE	1000	100.0	100.0	100.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		l .															
Œ	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
					-												
Œ	700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_		l															
Œ	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAY HOURS: 06-08

				LST	TO UTC	: + /					MONTH:	MAY	HOURS:	06-08			
CEIL	TNG	• • • • • •	•••••		•••••	• • • • • • •	VISTRII.	ייי זאי זייע זאי	STATUTE	MTT.RS	•••••	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • • •	• • • • • •
18		CE CE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	Œ	GE	GE	GE
FEE		7	6	5	4	3	2 1/2		1 1/2		1	3/4	5/8	1/2	3/8	1/4	0
					•••••					• • • • • •				_, _			
		]															
NO C	BIL	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 2		94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 1		94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 1		94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 1		95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1	2000	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 1		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
	9000	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
	8000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	7000	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE	6000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	5000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.5
	4500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
95	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	i																
GE	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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## PERCENTAGE PREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAY HOURS: 09-11

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CEII									STATUTE								
II		GE	GR	GE	GE	GE	GE	GR	GE.	GE	GE	GB	GE	GE	GE	GE	GE
FE	T	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
••••	• • • • •	· · · · · ·	• • • • • •	• • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • •
		l															
NO (	ERIL	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
<b></b> .			06.3	06.3	06.3	05.3	06.3	05.3	06.3	06.3	06.3	06.3	06.3	96.3	06.3	06.3	06.1
	18000	96.3 96.3	96.3 96.3	96.3 96.3	96.3 96.3	96.3 96.3	96.3 96.3	96.3 96.3	96.3 96.3	96.3 96.3	96.3 96.3	96.3 96.3	96.3 96.3	96.3	96.3 96.3	96.3 96.3	96.3 96.3
	16000	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
	14000	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
	12000	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
46	12000	] "."	37.3	37.3	37.3	37.3	31.3	37.3	31.3	31.3	37.3	37.3	37.3	31.3	37.5	37.3	31.3
CER 1	10000	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GR .	9000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
Œ	8000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
CE	7000	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
Œ	6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		Ī															
Œ	5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		ŀ															
<b>GE</b>		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_			100.0				400.0					400.0			400 0	100 0	
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0 100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0 100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE GE		100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GES.	900	1.00.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
			J •				×					<del>-</del>					<b>.</b>
CE.	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAY HOURS: 12-14

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	LING								STATUTE								
	T.M	GE	GB	Œ	GR	GE	GB	GB	GE	GB	GE	GE	GE	GE	GE	GB	GE
P	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • •	• • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • •	•••••	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
жо	CEIL	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
	<b>CD1</b> 2	30.3	30.3	30.3	30.5	30.5	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.5	30.3	30.3
GE	20000	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE	18000	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE	16000	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE	14000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GB	12000	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
		}															
	10000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE	9000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GB	8000	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE	7000	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE	6000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
														400.0			
GE	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	106.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE		100.0	100.0	100.0	100.0		100.0			100.0		100.0	100.0	100.0	100.0	100.0	100.0
	1200	1.00.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	İ																
GE	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	100.0	100.0	100.0	100.0	100.0	100.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	100.0	100.0	100.0	100.0	100.0	160.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
• • •	• • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • •

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAY HOURS: 15-17

						• • • • • •											
CEI	LING					,	VISIBILI	TY IN	STATUTE	Miles							
	H	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
FE	et	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•••	• • • • • •		• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • • •	· · · · · ·	• • • • • •	• • • • • •	• • • • • •	• • • • • •
NO	CEIL	85.9	85.9	85.9	85.9	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
<b>AND</b>	20000	03.5	03.5	03 5	03.5	03.5	03.7		02.7	03.7		03.7	02.7	02.7		03.0	
	20000 18000	93.5 94.3	93.5 94.3	93.5 94.3	93.5 94.3	93.5 94.3	93.7 94.4	93.7 94.4	93.7 94.4	93.7	93.7	93.7	93.7 94.4	93.7	93.7	93.8	93.8
	16000	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4 94.6	94.4 94.6	94.4 94.6	94.4	94.4 94.6	94.4 94.6	94.6	94.6 94.7
	14000	95.1	95.1	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	94.7 95.3	95.3
	12000	96.5	96.5	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.8	96.8
95	12000	30.5	30.3	30.0	90.0	30.0	50.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	90.7	90.0	90.0
CR	10000	96.6	96.6	96.7	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	97.0	97.0
GE	9000	96.7	96.7	96.8	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.1	97.1
GE	8000	97.2	97.2	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6	97.6
GE	7000	97.3	97.3	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7
Œ	6000	98.9	98.9	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
		_															
GE	5000	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
CE	4500	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
Œ	4000	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	3500	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	3000	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	2500	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
Œ	2000	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	1800	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	1500	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
Œ	1200	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
	i																
GE	1000	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GB	900	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
Œ	800	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GB	700	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	600	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	500	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	400 300	99.4 99.4	99.4 99.4	99.6 99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE					99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GB	200	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	100	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
Œ	000	99.4	99.4	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
45	300	37.4	77.9	<b>77.0</b>	77.U	73.1	77.7	77.7	77.7	77.7	77.7	27.7	フブ・ブ	77.7	77.7	100.0	100.0
				• • • • • •	• • • • • •	• • • • • • •		• • • • • •			•••••	• • • • • • •	• • • • • • •				

#### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAY HOURS: 18-20 CRILING VISIBILITY IN STATUTE MILES IN Œ GR Œ GR GR GR Œ GR GR GR GR GR GE GR GE GE FEET 6 5 4 3 2 1/2 2 1 1/2 1 1/4 1 3/4 5/8 1/2 3/8 1/4 0 NO CEIL 83.6 83.6 83.6 83.6 83.6 83.6 83.6 83.6 83.6 83.6 83.6 83.6 83.6 83.6 83.6 83.6 GE 20000 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91.9 GE 18000 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4 92.4 GR 16000 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.3 92.6 GB 14000 94.1 94.1 94.1 94.1 94.1 94.1 94.1 94.1 94.1 94.1 94.1 94.1 94.1 94.1 94.1 94.1 **GE 12000** 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 97.0 97.0 97.0 GE 10000 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0 9000 97.1 97.1 97.1 97.1 GE 97.1 97.1 97.1 97.1 97.1 97.1 97.1 97.1 97.1 97.1 97.1 97.1 97.6 GB 8000 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 GR 7000 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 GR 6000 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5 99.7 GE 5000 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 GR 4500 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 4000 99.7 99.7 99.8 99.8 GE 99.7 99.7 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 3500 99.7 99.7 99.8 GE 99.7 99.7 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 99.8 GR 3000 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 GB 99.7 99.7 99.8 2500 99.7 99.7 99.8 99.8 99.8 C9.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 GR 2000 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 99.8 GE 1800 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 1500 99.7 99.7 GE 99.7 99.7 99.8 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 CR 1200 99.7 99.7 99.8 100.0 100.0 100.0 100.0 99.7 99.7 99.8 99.8 99.8 99.8 99.8 100.0 100.0 GR 1000 99.7 99.7 99.7 99.7 99.8 99.8 99 9 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 GE 900 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 GB 800 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 99.8 GR 700 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 99.8 GE 600 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 GE 500 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 GE 400 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 100.0 100.0 99.8 100.0 100.0 100.0 100.0 GR 300 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 99.8 100.0 160.0 100.0 100.0 100.0 100.0 99.7 99.7 GE 200 99.7 99.7 99.8 99.8 99.8 99.8 99.B 99.8 100.0 100.0 100.0 100.0 100.0 100.0 GE 100 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 GE 000 99.7 99.7 99.7 99.7 99.8 99.8 99.8 99.8 99.8 99.8 100.0 100.0 100.0 100.0 100.0

## PERCENTAGE PREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAY HOURS: 21-23

				10.1	10 010	• • •					FAMILI.	rmi	HOOKS.	21-23			
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	LING								STATUTE								
	K	GE	GE	GE	Œ	GE	GB	GE	GE	GE	Œ	GE	GE	GE	Œ	GE	Œ
F	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
											<i>.</i>						
		1															
MO	CRIL	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
CR	20000	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
	18000	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
	16000	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
		3															95.9
	14000	95.9	95.9	95.9	95.9	95.9	95.9	95.)	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	
GE	12000	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
		İ															
<b>GE</b>	10000	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	58.0	98.0	98.0	98.0
Œ	9000	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GB	8000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
Œ	7000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
Œ	6000	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
								•••									
Œ	5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
					_												
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
OD.	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_																	400.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		l															
Œ	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAY HOURS: ALL

				POI	IO OIC	. • /					rowin.	HAI IN	ow. M	ш			
COT	LING	•••••	• • • • • •	• • • • • • •	• • • • • •	• • • • • •			STATUTE	MITE	• • • • • •		•••••	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •
	M	Œ	GE	GE	GE	GE	GE ATSTRITE	GE TTT IN	GE	GE MITTES	GE	GE	GE	GE	GE	GE	GE
		7	6 6	G.S.	4	GE. 3					1	3/4	5/8		3/8	1/4	0
PE	ET	,	0	5	•	3	2 1/2	2	1 1/2	1 1/4	1	3/4	3/8	1/2	3/8	1/4	U
• • •	•••••		• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • • •		• • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •
=-			1					00.1	00.1	00.1	00.1	89.1	00.1	00.1	00.1	00.1	00.1
MO	CEIL	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
~	70000	04.0			04.0	04.0			94.9	04.0	04.0	94.9	94.9	94.9	04.0	04.0	94.9
	20000	94.8	94.8	94.8	94.8	94.8	94.9	94.9		94.9	94.9	95.2	95.2	95.2	94.9 95.2	94.9	
	18000	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2 95.4	95.4	95.4	95.4		95.2 95.4	95.2 95.4
	16000	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4					95.4		
	14000	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GK	12000	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
-		07.0			07.0				07.0	03.0		07.0	07.0	07.0	07.0	07.0	07.0
	10000	97.8	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GB	9000	97.9	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE	8000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5
GE	7000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7
GE	6000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
GB	5000	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	4500	99.8	99.8	99.8			99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
					99.8	99.9			100.0		100.0		100.0				
GE	4000	99.8	99.8	99.9	99.9	99.9	100.0	100.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0
GE	3500	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0
GE	3000	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2500	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2000	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1200	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GD	1200	33.0	99.0	37.3	33.3	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
95	000	33.0	37.0	33.3	33.3	22.3	100.0	100.0	160.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AP	100	33.0	37.0	77.7	37.3	77.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	000	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100 0	100 0	100.0	100.0	100.0	100.0	100.0	100.0
	000	33.0	77.0	22.3	22.3	22.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTE: JUN HOURS: 03-05

				LST	10 010	: + /					MONTH:	JUN	HOURS:	03-05			
CRII	THA	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••	VISIBIL		OMANUFIED	MTIPE	• • • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • • •	•••••
I		GE	GR	GE	Œ	GR	GE ATSTRIT	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
FE		7	6	5	4	3	2 1/2			1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
r Di	• •	,	•	,	•	J	2 1/2	2	1 1/4	1 1/4	•	374	370	1/2	3/6	1/4	U
••••	• • • • •		•••••	•••••	•••••	•••••	• • • • • • •	• • • • • • •	• • • • • • •	•••••		•••••		•••••	• • • • • •		• • • • • •
<b>NO</b> (	TT.	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
		****	33.0	73.0	33.0	93.0	33.0	55.0	33.0	33.0	33.0	33.0	33.0	33.0	93.0	33.0	33.0
m ·	20000	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
	18000	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
	16000	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
	14000	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
	2000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
<b>GB</b> .	2000	90.0	90.0	90.0	90.0	90.0	98.0	90.0	98.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	98.6
<b>~</b>	0000	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE.	9000	99.8	99.8	99.8		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8		99.8	99.8
	8000	99.8	99.8	99.8	99.8		99.8	99.8	99.8	99.8		99.8	99.8	99.8	99.8 99.8	99.8	
Œ					99.8	99.8					99.8						99.8
GE	7000	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
Œ	6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
~	5000	100.0	100.0	100 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ			100.0	100.0	100.0					-				_	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0 100.0	100.0	100.0 100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE.					100.0	100.0				100.0	100.0	100.0		100.0	100.0	100.0	100.0
Œ	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	2500	100.0	100.2	100.0	100 ວ	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	150.0	106.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0		100.0	100.0		100.0	100.0				100.0	100.0	100.0	100.0
AD.	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0		100.0		100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
913	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE.		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CIE .		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
- OD	100	-00.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100 0	100.0	100.0	100 0	100.0	100.0	100.0	100.0
		1-00-0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	200.0	100.0	100.0	100.0	100.0	100.0
											<b> •</b>		<b></b>				

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JUN HOURS: 06-08

GE 10000 98.0 98.0 98.0 98.0 98.0 98.0 98.0			•••••	•••••		• • • • • • • • • • • • • • • • • • • •						• • • • • • •			• • • • • • •		• • • • • •	•••••
No CeIL   92.0		NG I			_													
MO CEIL 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0		- 1																
GR 20000 95.0 95.0 95.0 95.0 95.0 95.0 95.0	PERT	ı	,	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
GR 20000 95.0 95.0 95.0 95.0 95.0 95.0 95.0	• • • • • •	• • • • •	•••••	• • • • • • •	• • • • • • •	•••••	• • • • • • • •	•••••	• • • • • • •	•••••	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••
GE 20000 95.0 95.0 95.0 95.0 95.0 95.0 95.0	NO CE	щ	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 18000 95.1 95.1 95.1 95.1 95.1 95.1 95.1 95.1					•													
GE 16000 95.1 95.1 95.1 95.1 95.1 95.1 95.1 95.1						95.0					95.0				95.0	95.0	95.0	95.0
GE 14000 96.2 96.2 96.2 96.2 96.2 96.2 96.2 96.2	GE 180	000	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 10000 98.0 98.0 98.0 98.0 98.0 98.0 98.0				_								-					95.1	
GE 10000 98.5 98.5 98.5 98.5 98.5 98.5 98.5 98.5															96.2		96.2	96.2
GE 9000 98.9 98.9 98.9 98.9 98.9 98.9 98.9	GB 120	000	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 8000 99.6 99.6 99.6 99.6 99.6 99.6 99.6 9	GE 100	000	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 7000 99.6 99.6 99.6 99.6 99.6 99.6 99.6 9	GE 90	000	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 5000 100.	GE 80	000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 5000 100.	GR 70	000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 4500 100.	GE 60	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 4500 100.																		
GE 4000 100.	GE 50	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 3500 100.	GE 45	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 3000 100.	GE 46	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 2500 100.	GB 35	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GR 2000 100.	GE 30	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GR 2000 100.																		
GE 1800 100.	GB 2	500	100.0	100.0	100.0	100.0	100.0		100.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0
GE 1000 100.	GB 20	000	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1200 100.	GB 1	800	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1000 100.	GB 1	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900 100.0	CE 1:	200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900 100.0	GR 10	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100-0	100.0	100.0	100.0	100.0	100.0	100 0	100 0
GE 800 100.0																		
GE 700 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 GE 600 100.																		
GR 600 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0																		
GR 500 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0								20010		20010	20020		20000	200.0	20000	200.0	100.0	100.0
	GE S	500	100.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
																		100.0
																		100.0
																		100.0
																		100.0
1000 1000 1000														,				
GE 000 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	GE (	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		• • • •					•••••		• • • • • • •						•••••			

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JUN HOURS: 09-11

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	Ling								STATUTE								
I		GE	GE	GR	GE	GE	Œ	GE	GE	GE	GE	GE	GE	GB	GE	GE	Œ
PE	ST :	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•••	• • • • •	· · · · · · · · · · · · · · · · · · ·	• • • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • •
<b>MO</b> (	CRIL	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
CR 1	20000	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
	18000	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
	16000	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
	14000	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
	12000	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE :	10000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
Œ	9000	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
Œ	8000	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GB	7000	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
Œ	6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		1															
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GR		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CIR	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CER		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	-		100.0	100.0	100.0	100.0	100.0	100.0	10.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0			100.0	100.0		100.0	100.0	100.0	100.0	100.0
		]															
GE	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JUN HOURS: 12-14

				пот	10 010	. • •					LOWITH.	OUR	noorw.	12-14			
•••		• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •		• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • •
	LING						VISIBIL									_	
	N.	GE	GB	GE	GE	GE	GE	GE	GE	GE .	GE	GE	GB	GE	GB	Œ	GE
F	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • •			•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •		• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •
		Ī															
NO	CEIL	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE	20000	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE	18000	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE	16000	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE	14000	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE	12000	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
		l															
Œ	10000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	i	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40	2000	1.00.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GR		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		100.0	100.0	100.0	100.0							100.0	100.0	100.0	100.0	100.0	100.0
CE		100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
GE					100.0	100.0	100.0	100.0	100.0	100.0	100.0					100.0	100.0
CE	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_																	
CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		l															
GE	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7
MONTH: JUN HOURS: 15-17

•••			• • • • • • •			• • • • • •					• • • • • •			• • • • • • •			
	LING								STATUTE								
		GE	GE	GB	GE	GE	GE .	GE	GE	G <b>R</b>	GE	GE	Œ	GE	GB	GE	Œ
Pi	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • •			• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	· · · · · ·	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	•••••	• • • • • •	• • • • • •	• • • • • •
_	~B++	۱	00.0			00.0			02.0	02.0		00.0	00.0	00.0	00.0	00.0	
MU	CBIL	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
æ	20000	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
_	18000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	16000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	14000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
	12000	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
42	12000	] ""	,,,,	,,,,	23.3	23.3	33.3	33.3	33.3	33.3	,,,,	33.3	,,,,	,,,,	22.3	,,,,	39.3
CIR	10000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	9000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
CER.	8000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
CE	7000		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	6000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		ł															
Œ	2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		[															
Œ		100.0	100.0	100.0	100.0	100.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>Ç</b> E		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_	F.00		100.0									400.0					
Œ		100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE.	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
45	000	1100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JUN HOURS: 18-20

				Par	10 010	: + /					MONTE:	JUN	HOURS:	16-20			
CPT	LING	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •			STATUTE	MTTPO	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • •
CBI.		GB	GE	GE	GE	GE	GE ATOTETET	GE .	GE	GE LITTES	GE	GE	GE	GE	GE	GE	GE
FR		7	6	5 5	4	3	2 1/2	2		1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
	ът I	•	•	9	•	,	2 1/2	2	1 1/2	1 1/4	1	3/4	3/6	1/2	3/8	1/4	U
•••	· · · · · i		• • • • • •	• • • • • •	• • • • • •	• • • • • • •		•••••	•••••	•••••	• • • • • •	• • • • • •	•••••	• • • • • •	•••••	• • • • • • •	•••••
<b>m</b> 0	CE IL	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
110	œш	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
CP ·	20000	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
	18000	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
	16000	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
	14000	95.7	95.7	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
	12000	98.1	98.1	98.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.6
		30.1	30.1	30.1	30.1	20.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.0	30.0	30.0	30.0
GR	10000	99.0	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
GE	9000	99.0	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
GE	8000	99.0	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
GE	7000	99.0	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
GE	6000	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
			32.0			22.0	22.2		22.0	,,,,,	33.3	23.0	,,,,	100.0	100.0	100.0	100.0
GE	5000	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	4500	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	4000	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	3500	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	3000	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
													•				
GE	2500	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	2000	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	1800	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	1500	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	1200	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
	1	ľ															
GE	1000	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	900	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	800	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	700	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	600	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
	- 1																
GE	500	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	400	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	300	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	200	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
GE	100	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
	l																
GE	000	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0
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## PERCENTAGE PREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JUN HOURS: 21-23

CRI	LING	• • • • • •	• • • • • •	•••••	• • • • • • •	•••••	VISIBIL	 ITY IN	STATUTE	MILES	• • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •
	CIN	GE	GE.	GE	GE	GE	GE	GB	GE	GE	GE	GB	GE	GE	GE	GE	GE
	BT	7	6	5	4	3	2 1/2	2		1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
		· • • • • • •					• • • • • • • •										
	İ																
MO	CEIL	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
CE	20000	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
	18000	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
	16000	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
	14000	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
Œ	12000	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
	10000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE	9000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GB	8000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
CE	7000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
CE	6000	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_	5000			100.0													
Œ	5000	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	4500	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	4000	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	3500	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3000	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CER	2500	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2000	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0 100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1800	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE CE	1500	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1200	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_	1200	33.4	33.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1000	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	800	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	500	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	400	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	300	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	200	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	99.4	99.4	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JUN HOURS: ALL

CBI	 Ling	• • • • • •	•••••	• • • • • • •	• • • • • • •		VISIBILI	TY IN :	STATUTE	 Miles	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	•••••	• • • • • •	•••••
I	n i	GE	GE	Œ	GE	GE	GB	GE	GE	Œ	GE	GE	GE	GE	GE	GE	GE
	ET	7	6	5	4	3	2 1/2	2		1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
				• • • • • • •	-									• • • • • • •		•••••	
	- 1																
MO	CRIT	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
	20000	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
	18000	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
	16000	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
	14000	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE	12000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
æ	10000	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE	9000	99.5	99.5	99.5	99.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE	8000	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE	7000	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE	6000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GD	0000	23.3	33.3	33.3	22.3	33.3	22.2	33.3	33.3	33.3	33.3	33.3	33.3	100.0	100.0	100.0	100.0
GE	5000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	4500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	4000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
CE	3500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	3000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
	1																
GE	2500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	2000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	1800	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	1500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
CE	1200	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	1000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GB	900	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	800	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	700	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GB	600	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
															100 0		
GE	500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	400	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	300	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	200	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GB	100	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE	000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
95	1000	77.3	77.7	77.7	77.7	77.7	33.7	33.3		33.3	33.3	77.7	77.7	100.0	100.0	100.0	100.0

# PERCENTAGE PREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JUL HOURS: 03-05

CR	LING	• • • • • •	• • • • • • •		• • • • • •	• • • • • •	 Visibii	 ITV TN	STATUTE	MILES	• • • • • •	•••••	• • • • • •	•••••	• • • • • •	• • • • • •	•••••
	M	CE	GE.	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	BT	7	6	5	4	3	2 1/2			1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•••			• • • • • • •								- • • • • • • •			•••••			
MO	CEIL	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
Œ	20000	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
Œ	18000	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
<b>CE</b>	16000	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
CE	14000	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
Œ	12000	93.7	93.7	93.7	93.7	93.9	93.9	<b>y3.9</b>	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
Œ	10000	97.2	97.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
Œ	9000	97.2	97.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
Œ	8000	97.2	97.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
Œ	7000	97.2	97.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
Œ	6000	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
Œ	5000	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	4500	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	4000	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3500	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	3000	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	2500	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	2000	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1200	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1000	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	900	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	800	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	300	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JUL HOURS: 06-08

				rol	TO UIC	: + /					MONTH:	JOD	nours:	00-08			
CEILI		•••••	• • • • • •	• • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •			STATUTE		• • • • • • •	•••••	•••••	• • • • • • •	•••••	• • • • • • •	•••••
IN	, I	GE	GE	Œ	GE	GE	GE GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
PEET	ì	7	6	5	4	3	2 1/2	2		1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
LPPI	ı	•	ŭ	3	•	,	2 1/2	2	1 1/2	1 1/4		3/4	3/6	1/2	3/6	1/4	U
••••	· · · i	•••••	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •		• • • • • • •	• • • • • • •		•••••	•••••	•••••	• • • • • • •	•••••
NO CE	т.	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
C.		,,,,	,,,,	, , , ,	,,,,	,,,,	,,,,	,,,,	,,,,	,,,,	,,,,	,,,,	,,,,	,,,,	,,,,	,,,,	,
GB 20		76.5	76.5	76.5	76.5	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
GE 18		76.6	76.6	76.6	76.6	76.6	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 16		76.9	76.9	76.9	76.9	76.9	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 14		80.1	80.1	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
GB 12		93.3	93.3	93.3	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
911 12	اتت	,,,	,,,,	,,,,	33.3	33.3	33.3	JJ.4	33.4	33.4	,,,,	,,,,	33.4	33.4	,,,,	33.4	23.4
GE 10	റററ	96.4	96.4	96.4	96.4	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
	000	96.8	96.8	96.8	96.8	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
	000	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
	000	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
	000	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 5	000 l	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	500	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	000	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 3	500	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 3	000	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 2	500	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 2	000	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.9	100.0
GE 1	800	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1	500	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1:	200	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	- 1																
GE 1	000	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE '	900	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE :	500	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	400	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	300	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	200	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	l																
GE	000	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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#### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY PROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JUL HOURS: 09-11 CRILING VISIBILITY IN STATUTE MILES GE GE 2 1/2 2 GR GB IN GE GR Œ GE GE GE Œ GE GE GE Œ 1 1/2 1 1/4 1 7 FEET 5 4 3 3/4 5/8 1/2 3/8 1/4 0 ..... 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 NO CRIL 77.9 77.9 77.9 77.9 77.9 77.9 GB 20000 84.2 84.2 84.2 84.2 84.2 84.2 84.2 84.2 84.2 84.2 84.2 84.2 84.2 GE 18000 85.1 85.1 85.1 85.1 85.1 85.1 85.1 85.1 85.1 85.1 85.1 85.1 85.1 85.1 85.1 85.1 GR 16000 85.4 85.4 85.4 85.4 85.4 85.4 85.4 85.4 85.4 85.4 85.4 85.4 85.4 85.4 85.4 85.4 GE 14000 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9 GR 12000 95.9 95.9 95.0 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95.9 GE 10000 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.6 CR 9000 98.6 98.6 98.6 98.6 98.6 98.6 98.6 98.6 98.6 98.6 98.6 98.6 98.6 98.6 98.6 Œ 8000 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 GR 7000 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 Œ 6000 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 GR 5000 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 4500 100 0 100.0 Œ 4000 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 3500 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 3000 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 2500 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 2000 100.0 GR 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 GE 1800 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 1500 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 1200 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 100.0 100.0 100.0 Œ 1000 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 900 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 700 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 600 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 CIR 500 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 400 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 CR 300 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 CE 200 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 CIR. 100 100.0 190.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 000 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JUL HOURS: 12-14

				LST	TO UTC	: + 7					MONTH:	JUL	HOURS:	12-14			
CEIL	 ING	•••••	•••••		• • • • • • •	• • • • • • • • • • • • • • • • • • • •	VISIBILI	TY IN	STATUTE	MILES	• • • • • •	•••••			•••••		•••••
IN		Œ	GE	Œ	GE	GE	GB	GE	GE	Œ	GE	GE	GE	Œ	GE	GE	GE
FRE	1	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
••••	:					• • • • • •		•••••	• • • • • • •		· · · · · ·	• • • • • •					• • • • • •
NO C	BIL	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
	l																
GB 2	0000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91-4
GE 1	8000	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GR 10		91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GB 1		93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GB 1	2000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GR 1	0000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
	9000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GR :	8000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE '	7000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE (	6000	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	> - • •	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	5000	99.8	99.8	99.9	99.9	99.9	99.9	90.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	4500	99.8	99.8	99.9	99.9	99.9	3 من	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	4000	99.8	99.8	99.9	99.9	99.9	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3500	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE :	3000	99.8	99.8	99.9	99.9	99.9	99.9	€3.9	<b>9</b> 9 <b>9</b>	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE :	2500	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	2000	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1800	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1500	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1200	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100 0
GE	900	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	700	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	600	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	100	99.8	99.8	99.9	99.9	99.9					100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	100	33.0	33.0	77.7	77.7	77.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	000	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
••••	• • • • •	•••••			• • • • • • •	• • • • • • •		• • • • •	• • • • • • • •			• • • • • •		• • • • • • •	• • • • • •		• • • • • •

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JUL HOURS: 15-17

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CEII			_				VISIBILI										
11		GE	Œ	GE	Œ	GE	GE	GE	GE .	GE	GB	GE	GE	GE	GE	GE	GE
PE	2I	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
••••																	
NO C	BIL	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
	1																
GR 2	20000	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
	8000	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
	6000	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
	4000	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
	2000	98.2	98.2	98.2	98.2	98.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
95	2000	90.2	90.2	70.2	90.2	90.2	30.3	90.4	90.4	70.4	70.4	90.4	90.4	90.4	90.4	90.4	70.4
	10000	98.5	98.5	98.5	98.5	98.5	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE	9000	98.5	98.5	98.5	98.5	98.5	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE	8000	98.5	98.5	98.5	98.5	98.5	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
Œ	7000	98.8	98.8	98.8	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1
CE	6000	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
	ł																
Œ	5000	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
CE	4500	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
CE	4000	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
CE	3500	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
Œ	3000	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
		1															
GE	2500	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	2000	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	1800	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	1500	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GK.	1200	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
		,,,,,	3,7.4	22.4	JJ. 4	33.0	33.0	,,,,	,,,,	,,,,	,,,,	,,,,	33.3	22.5	,,,,	100.0	100.0
CIE .	1000	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	900	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GB	800	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	700	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
	600										99.9			_			
GE	800	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
		4			•• •												
GE	500	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GB.	400	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
Œ	300	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	200	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
CE	100	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
	ł																
CE	000	99.4	99.4	99.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JUL HOURS: 18-20 CRILING VISIBILITY IN STATUTE MILES Œ 1N Œ GR Œ GR GR GB GR Œ GR Œ Œ GE GE GE GE PEET 6 5 4 3 2 1/2 2 1 1/2 1 1/4 3/4 5/8 1/2 3/8 1/4 0 1 ............. NO CBIL 66.7 66.7 66.7 66.4 66.4 66.7 66.7 66.7 66.7 66.7 66.7 66.7 66.7 66.7 66.7 66.7 GB 20000 81.1 80.8 81.1 81.1 81.1 81.1 81.1 81.3 81.3 81.3 81.3 81.3 81.3 81.3 GR 18000 82.3 82.6 82.3 82.6 82.6 82.6 82.6 82.6 82.8 82.6 82.8 82.8 82.8 82.R 82.8 82.R GE 16000 82.3 82.3 82.6 82.6 82.6 82.6 82.6 82.6 82.6 82.8 82.8 82.8 82.8 82.8 82.8 82.8 GE 14000 84.5 84.6 84.6 84.3 84.3 84.6 84.6 84.6 84.6 84.8 84.8 84.8 84.8 84.8 84.8 84.8 GE 12000 92.0 92.0 92.3 92.3 92.3 92.5 92.5 92.5 92.5 92.6 92.6 92.6 92.6 92.6 92.8 92.8 GR 10000 93.1 93.1 93.4 93.7 93.7 93.4 93.5 93.7 93.7 93.9 93.9 93.9 93.9 93.9 94.0 94.0 GE 9000 93.4 93.4 93.7 93.7 93.9 94.0 94.0 94.0 94.0 94.2 94.2 94.2 94.2 94.2 94.3 94.3 8000 93.4 93.4 93.7 93.7 93.9 94.0 94.0 94.0 GE 94.2 94.2 94.2 94.0 94.2 94.2 94.3 94.3 GR 7000 93.5 93.5 93.9 93.9 94.0 94.2 94.3 94.3 94.3 94.5 94.5 94.5 94.5 94.5 94.6 94.6 6000 97.5 98.2 98.2 98.8 98.9 99.1 99.2 99.5 99.2 99.5 99.5 99.5 99.5 99.8 99.8 GE 5000 97.7 97.8 98.3 98.3 98.9 99.1 99.2 99.7 99.4 99.4 99.7 99.7 99.7 99.7 100.0 100.0 99.2 GE 4500 97.7 97.8 98.3 98.3 98.9 99.1 99.4 99.7 99.4 99.7 99.7 99.7 99.7 100.0 100.0 4000 GR. 3 QR.Q CR 97.7 97.8 98.3 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0 Œ 3500 97.7 97.8 98.3 98.3 98.9 99.2 99.4 99.1 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0 3000 97.7 97.8 98.3 GR 98.3 98.9 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 1(2.0 100.0 98.3 GB 2500 97.7 97.8 98.3 98.9 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0 2000 97.7 97.8 98.3 98.3 98.9 99.1 GR 99.2 99.4 99.7 99.4 99.7 99.7 99.7 99.7 100.0 100.0 GE 1800 97.7 97.8 98.3 98.3 98.9 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0 97.7 GE 1500 97.8 98.3 98.3 98.9 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0 Œ 1200 97.7 97.8 98.3 98.3 98.9 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0 GB 1000 97.7 97.8 98.3 98.3 98.9 99.1 99.2 99.4 99.7 99.7 99.7 100.0 100.0 99.4 99.7 99.7 GE 900 97.7 97.8 98.3 98.3 QR.Q 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0 97.7 GE 800 97.8 98.3 98.3 98.9 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0 GR 700 97.7 97.8 98.3 6.89 98.9 99.1 99.2 99.4 99.7 99.4 99.7 99.7 99.7 99.7 100.0 100.0 GE 600 97.7 97.8 98.3 98.3 98.9 99.1 99.2 99.4 99.7 99.4 99.7 99.7 99.7 99.7 100.0 100.0 98.3 98.3 GE 500 97.7 97.8 98.9 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0 97.7 CR 400 97.8 GR. 3 98.3 QR. Q 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0 97.7 CR 300 97.8 98.3 98.3 98.9 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0 200 97.7 97.8 98.3 CR 98.3 98.9 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0 GE 100 97.7 97.8 98.3 98.3 98.9 99.4 99.1 99.2 99.4 99.7 99.7 99.7 99.7 100.0 100.0 GE 000 97.7 97.8 98.3 98.3 98.9 99.1 99.2 99.4 99.4 99.7 99.7 99.7 99.7 99.7 100.0 100.0

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY PROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JUL HOURS: 21-23

				LST	TO UTC	: + 7					MONTH:	JUL	HOURS:	21-23			
CEI	LING	• • • • • •	• • • • • • •		• • • • • • •	•••••	VISIBILI	TY IN	STATUTE	MILES	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •		•••••
1		GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE.
FE		7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
			• • • • • • •														
	ļ																
NO	CEIL	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
CIR	20000	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
	18000	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
	16000	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
	14000	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
	12000	90.9	90.9	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
Œ	10000	92.1	92.1	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
Œ	9000	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE	8000	93.3	93.3	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
Œ	7000	94.5	94.5	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
CE	6000	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	5000	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	4500	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
GE	4000	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	3500	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	3000	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	2500	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	2000	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	1800	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
CE	1500	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	1200	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	1000	98.8	98.8	99.4	99.4	99.4	99.4	00.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
GE	900	98.8	98.8	99.4	99.4	99.4	99.4	99.4 99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
GE	800	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	700	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
CE	600	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
W.D.	500	90.0	30.0	37.9	77.4	33.4	99.4	33.4	33. <del>4</del>	99.4	33.4	77.4	77.4	100.0	100.0	100.0	100.0
Œ	500	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
GE	400	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
GE	300	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
GE	200	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
CE	100	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
		,,,,,	,,,,	JJ.4	<i>,,,</i> ,	JJ.4	37.4	<i>,,</i> ,,	JJ.4	33.4	JJ. 4	<del>-</del>	,,. <del>,</del>	100.0	100.0	200.0	100.0
CE	000	98.8	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
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# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7
MONTH: JUL HOURS: ALL

				LST	TO UTC	: + 7					HONTH:	JUL HO	URS: AL	<b>L</b>			
• • • •			• • • • • •	• • • • • • •	• • • • • •						• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	•••••
	Ling - '	GE	~	-	an.		VISIBILI	TI IN :	GE		GE	GE	GE	GE	GE	GE	GE
I FE		7	GE 6	GE 5	GB 4	GE 3	GE 2 1/2	2	1 1/2	GE 1 1/4	GE 1	3/4	5/8	1/2	3/8	1/4	0
	er				•		2 1/2		1 1/2	1 1/4		3/4			3/0	1/4	
	I																
MO	CEIL	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
	ı																
	20000	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
	18000	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1
	16000	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
	14000	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GR	12000	95.5	95.5	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
æ	10000	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE	9000	97.3	97.3	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6	97.6
GE	8000	97.6	97.6	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE	7000	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE	6000	99.3	99.3	99.4	99.4	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE	5000	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	4500	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	4000	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	3500	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	3000	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
	- 1																
GE	2500	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	2000	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	1800	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	1500	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9 99.9	99.9	99.9 99.9	99.9	99.9	100.0	100.0
GE	1200	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	1000	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	900	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	800	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	700	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	600	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
Œ	500	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	400	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	300	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	200	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
CE	100	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	000	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
• • •		•••••	• • • • • •	• • • • • •		• • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY PROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: AUG HOURS: 03-05

CR1	LING	• • • • • •	• • • • • • •		•••••	• • • • • • •	VIETRII.	 TTV TM	STATUTE	MTT.RS		•••••	• • • • • •	•••••	• • • • • • •	•••••	•••••
	M	GE	GB	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	Œ
	et Et	7	6	5	4	3	2 1/2		1 1/2		1	3/4	5/8	1/2	3/8	1/4	0
		, ,						<b>~</b>	1 1/2		<u>.</u>				3,0		
•••		1	•••••						•••••		• • • • • • •		•••••				•••••
MO	CRIL	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
Œ	20000	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
Œ	18000	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
Œ	16000	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
CE	14000	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
CE	12000	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
CE	10000	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
Œ	9000	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE	8000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
Œ	7000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
CE	6000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	_																
Œ	5000	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
Œ	4500	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
~	2500	100.0	100.0	100 0	100.0	100.0	100.0	100 0	100.0	100.0	100.0	100.0	100 0	100.0	100.0	100 0	200.0
GE CIR		100.0	100.0 100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0 100.0	100.0	100.0 100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>W</b>	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		ŀ															
Œ	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		i															
GE	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: AUG HOURS: 06-08

						• • • • • • •											
CEI	LING						VISIBILI	TY IN	STATUTE	MILES							
I	и ]	GE	GE	Œ	GE	Œ	GE	Œ	GE	Œ	GE	GE	GE	GE	GE	GE	GE
PE	BT	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • •																	
	- 1																
NO (	CEIL	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
	- 1																
	20000	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
	18000	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
	16000	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
	14000	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
CE :	12000	93.4	93.5	93.5	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
	- 1																
	10000	96.2	96.4	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE	9000	96.4	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE	8000	97.1	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE	7000	97.8	97.9	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE	6000	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE	5000	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE	4500	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE	4000	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	3500	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	300C	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GR	2500	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2000	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1200	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		2203	22.00	33.0		,,,,	,,,,	,,,,	20010	200.0	100.0	200.0	100.0	100.0	100.0	100.0	100.0
GE	1000	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	600	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
																-	
GE	500	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	000	99.5	99.6	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		. <b></b>															

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: AUG HOURS: 09-11

		•••••	• • • • • •	• • • • • • •	• • • • • •					· · · · · ·	•••••		• • • • • •	• • • • • •	••••	• • • • • •
CEILING	1	_		_		VISIBILI 				_						
IN	GE	GBS.	GE	Œ	GB	GE	GE	GB	GE	GE	GE	GE 5 (0	GE 1 (2	GE 3.40	GE	GE
PERT	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•••••	i	• • • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •		• • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • •
MO CEIL	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 20000	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 18000	86.2	85.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 16000	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 14000	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GB 12000	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
~ 4000									4							
GE 10000	1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 9000		97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 8000		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 7000		98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GB 6000	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 5000	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GB 4500	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 4000	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
QR 3500	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
<b>CE</b> 3000	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GB 2500		99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 2000	1	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GB 1800		99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GB 1500		99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
CB 1200	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
<b>CE</b> 1000	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE 900	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE 700	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE 600	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GR 500	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 400	1	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	1	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	"	77.1	33.1	33.1	77.0	37.0	22.0	77.0	37.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: AUG HOURS: 12-14

				LST	TO UTC	: + 7					MONTH:	AUG	HOURS:	12-14			
CEI	LING	•••••	• • • • • •	•••••	•••••	• • • • • •	VISIBIL	ITY IN	STATUTE	MILES	•••••	•••••	• • • • • •	• • • • • • •	•••••		•••••
I	N	GE	GE	Œ	GE	GE	GE	GE	GB	Œ	GE	Œ	GE	Œ	GE	Œ	GE
FE	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
	•••••																• • • • •
MO (	CBIL	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
CE :	20000	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
CE :	18000	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
CE :	16000	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE :	14000	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE :	12000	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE	10000	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
CE	9000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE	8000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE	7000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE	6000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
		2302	,,,,,	,,,,	,,,,	,,,,	22.2	33.1	2212	3311	,,,,	,,,,,	33.4	,,,,,	33.1	,,,,,	3341
CE	5000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GB	4500	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE	4000	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
CE	3500	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	3000	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
G <b>E</b>	2500	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GB	2000	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE	1800	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE	1500	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE	1200	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE	1000	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	- 1																
GE	500	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	300	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	000	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: AUG HOURS: 15-17

CE 1	LING	• • • • • •	•••••	• • • • • •	• • • • • •	•••••			STATUTE	MTT.ES	•••••	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	•••••
		GE	Œ	GE	GE	GE	GE	GE	GE	GE	Œ	GB	GE	GE	GB	GE	Œ
	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•••							· -				-			••••			
	1																
MO	CRIT	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1
-	20000	93.4	03.4	93.4	03.4	93.4	93.4	02.4	03.4	02.4	03.6	93.6	93.6	93.6	93.6	93.6	03.6
	18000	93.4	93.4 93.9	93.4	93.4 93.9	93.4	93.4	93.4 93.9	93.4 93.9	93.4 93.9	93.6 94.0	94.0	94.0	94.0	94.0	94.0	93.6 94.0
	16000	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2
	14000	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
	12000	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5
_	12000	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	,0.4	30.5	30.3	30.3	50.5	30.5	30.5	30.5
GR	10000	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE	9000	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE	8000	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0
Œ	7000	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0
CE	6000	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.5	99.5	99.6	99.8	99.8	99.9
GE	5000	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.5	99.5	99.6	99.8	99.8	99.9
Œ	4500	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.5	99.5	99.6	99.8	99.8	99.9
Œ	4000	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
CE	3500	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
Œ	3000	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
Œ	2500	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
Œ	2000	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
CE	1800	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
CE	1500	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
Œ	1200	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
CE	1000	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
Œ	900	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
CE	800	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
Œ	700	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
Œ	600	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
CI	500	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
Œ	400	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
CE	300	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
Œ	300	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
Œ	100	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
CR.	000	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.8	99.9	99.9	100.0
	1	,,,,		,,,,	22.4	JJ.4	<i>,,,,</i>	,,,,	,,, <del>,</del>	JJ.4	,,,,	22.0	37.0	,,,,	,,,,	37.3	200.0

#### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: AUG HOURS: 18-20 VISIBILITY IN STATUTE MILES CRILING GE GE IN GE GE GE Œ GE Œ GE GE GE GE GE GE GE GE FRET 7 6 5 4 3 2 1/2 2 1 1/2 1 1/4 1 3/4 5/8 1/2 3/8 1/4 0 NO CEIL 71.2 71.2 71.2 71.2 71.2 71.2 71.2 71.4 71.4 71.4 71.2 71.4 71.4 71.4 71.4 **GE 20000** 82.2 82.2 82.5 82.5 82.5 82.5 82.6 82.6 82.6 82.8 82.8 82.8 82.8 82.8 82.8 82.8 GE 18000 82.6 82.6 83.0 83.0 83.0 83.0 83.1 83.1 83.1 83.3 83.3 83.3 83.3 83.3 83.3 83.3 GR 16000 83.1 83.1 83.4 83.4 83.4 83.4 83.6 83.6 83.6 83.7 83.7 83.7 83.7 83.7 83.7 83.7 GE 14000 84.5 84.8 84.8 84.8 84.8 84.9 84.9 84.9 85.2 85.2 85.2 85.2 85.2 85.2 85.2 84.5 GE 12000 91.9 91.9 92.4 92.4 92.4 92.5 92.5 92.5 93.0 93.0 93.0 93.0 93.0 93.0 93.0 92.4 GE 10000 93.2 93.2 93.6 93.6 93.6 93.6 93.8 93.8 93.8 94.2 94.2 94.2 94.2 94.2 94.2 94.2 9000 94.2 94.2 94.7 94.2 94.4 94.4 94.8 94.8 94.8 94.8 94.8 94.8 94.8 GR 93.6 93.6 94.4 GE 8000 94.2 94.2 94.8 94.8 4.8 94.8 95.0 95.0 95.0 95.4 95.4 95.4 95.4 95.4 95.4 95.4 g.,, 7000 95.0 95.1 95.1 95.6 95.6 95.6 GE 94.4 94.4 95.0 95.0 95.1 95.6 95.6 95.6 95.6 GE 6000 97.7 97.7 98.6 98 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 99.8 5000 97.7 97.7 98.6 99.1 99.8 GR 98.5 98.9 98.9 99.1 99.2 99.R 99.8 99.8 99.8 99. R 99.8 GE 4500 97.7 97.7 J.6 98.6 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 99.8 GE 4000 97.7 97.7 98.6 98.6 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 99.8 3500 GR 97.7 97.7 98.6 98.6 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.1 CE 3000 9/.7 98.6 98.6 98.9 99.1 99.8 99.8 99.8 99.8 GB 2500 97.7 97.7 98.6 98.6 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 99.8 2000 97.7 97.7 98.6 98.9 99.1 99.2 99.8 99.8 99.8 99.8 CE 98.6 98.9 99.1 99.8 99.8 99.8 98.6 GE 1800 97.7 97.7 98.6 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 99.8 GE 1500 97.7 97.7 98.6 98.6 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 98.9 99.8 99.8 99.8 1200 CE 97.7 97.7 98.6 98.6 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 98.9 99.8 99.8 99.B Œ 1000 97.7 97.7 98.6 98.6 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 99.8 900 97.7 98.6 98.6 98.9 98.9 99.1 99.2 99.R 99.8 99.8 99.8 99.8 GR 97.7 99.1 99.8 99.8 GE 800 97.7 97.7 98.6 98.6 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 99.8 700 97.7 98.6 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 GE 97.7 98.6 98.9 99.8 GE 600 97.7 97.7 98.6 98.6 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 99.8 GR 500 97.7 97.7 98.6 98.6 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 99.8 GR 400 97.7 97.7 98.5 98.6 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 99.8 CR 300 97.7 97.7 98.6 98.6 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 100.0 GE 200 97.7 97.7 98.6 98.6 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 99.8 99.8 100.0 GR 100 97.7 98.6 98.6 99.8 99.8 97.7 98.9 98.9 99.1 99.1 99.2 99.8 99.8 99.8 99.8 100.0

TOTAL NUMBER OF OBSERVATIONS 657

97.7

98.6

98.6

98.9 98.9

GE

000 97.7

99.1 99.1 99.2

99.8 99.8

99.8 99.8 99.8 99.8 100.0

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: AUG HOURS: 21-23

				TOT	10 010	: <b>+</b> /					WOUTE:	AUG	BO0123;	21-23			
~ T	LING		• • • • • • •	• • • • • • •		•••••	 Visibili					• • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • •
I		GB	CE	GE	GE.	GE	GE ATSTRIPT	GE .	GE SIMIUIE	GE GE	GE	GE	GE	GE	GE	GE	CTP:
FE		7	6	98 5	4	3	2 1/2	2		1 1/4	1	3/4	5/8	1/2	3/8	1/4	GE O
PA	••	•	u	,	•	,	2 1/2	2	1 1/2	1 1/4		3/4	3/6	1/2	3/6	1/4	U
•••	· · · · · i		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	•••••		• • • • • • •		• • • • • •	• • • • • •	•••••	•••••	•••••	• • • • • •
<b>30</b> (	TEIL	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
••••		•>	03.2	03.6		٠,	07.2	03.2	0,,,	0,	03.2	03.2	03.2	0,	07.2	03.2	03.2
GR 2	20000	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	78.0	78.0	78.0	78.0
	18000	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.9	79.9	79.9	79.9
	16000	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.5	80.5	80.5	80.5
	14000	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.8	81.8	81.8	81.8
	12000	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	95.0	95.0	95.0	95.0
	i																
GE :	10000	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	96.2	96.2	96.2	96.2
GE	9000	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	96.2	96.2	96.2	96.2
GB	8000	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	96.2	96.2	96.2	96.2
Œ	7000	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	96.2	96.2	96.2	96.2
GB	6000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
	ı																
GE	5000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
GE	4500	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
GE	4000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
GE	3500	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	3000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
	- 1																
CE	2500	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
CE	2000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
GE	1800	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	1500	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
CE	1200	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
CE	1000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	900	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
GE	800	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
CE	700	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	600	98.7	98.7	90.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
										_							
GE	500	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
GE	400	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	300	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
Œ	200	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
CE	100	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
CER	000	98.7	98.7	98.7	98.7	98.7	00.7	00.7	00.7	00.7		00 1		100 0		100 0	100.0
46	امم	30./	90.7	90./	90./	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CEANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: AUG HOURS: ALL

				LST	TO UTC	: + 7					MONTH:	AUG HO	URS: AL	L			
CEI	LING	•••••		•••••	•••••		VISIBILI	TY IN	STATUTE	MILES	•••••	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	•••••
I	K	GE	GE	Œ	GE	GE.	GE	Œ	GB	GE	GE	Œ	GR	GE	GE	Œ	GE
FE	et	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•••		•••••	•••••	• • • • • • •	• • • • • •			•••••	• • • • • • •	• • • • • • •	•••••	• • • • • •	• • • • • •	• • • • • •	• • • • • •		• • • • •
NO (	CRIL	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE :	20000	86.6	86.6	86.6	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GB	18000	87.1	87.1	87.1	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE	16000	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE	14000	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8
GE	12000	94.9	95.0	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE	10000	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GB	9000	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
Œ	8000	97.3	97.3	97.4	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6
GE	7000	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE	6000	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.5	99.5	99.5
GE	5000	99.1	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.6	99.6	99.6
GE	4500	99.1	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.6	99.6	99.6
GE	4000	99.2	99.3	99.4	99.5	99.5	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE	3500	99.2	99.3	99.4	99.5	99.5	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE	3000	99.2	99.3	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.9
												,,,,	3340		33.4	3300	3313
GE	2500	99.2	99.3	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.9
GE	2000	99.2	99.3	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.9	99.9	99.9
GE	1800	99.2	99.3	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.9	99.9	99.9
GE	1500	99.2	99.3	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.9	99.9	99.9
GE	1200	99.2	99.3	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.9	99.9	99.9
GR	1000	99.3	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE	900	99.3	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE	800	99.3	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE	700	99.3	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE	600	99.3	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0
_	***		00.3														
GE	500	99.3	99.3	99.5	99.6	99.6	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE	400	99.3	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE	300	99.3	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE	200	99.3	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GR	100	99.3	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE	000	99.3	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0
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# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: SEP HOURS: 03-05

	LING	• • • • • •		• • • • • •	• • • • • •	• • • • • • •	VISIBIL	 TOV TH	CTATING	MTLES	• • • • • •	• • • • • • •	•••••	•••••	• • • • • •	• • • • • • •	•••••
	IN.	GB	CIE	GE	GE	GE	GE	GE	GE	GE	GIB	GE	GE	GE	Œ	GE	Œ
	KRT	7	6	5	4	3	2 1/2	2		1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•		, , , , , , , , , , , , , , , , , , ,						<b>.</b>			<u>.</u>						
		1							••••								•••••
NO	CEIL	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
Œ	20000	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE	18000	88.8	88.8	66.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GR	16000	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
Œ	14000	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
Œ	12000	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE	10000	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE	9000	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GB	8000	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE	7000	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE	6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
~	500	100 0	100 0	100.0	100.0	100 0	100 0		100 0	100.0	***	100.0	100.0	100.0	100 0	100.0	100 0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0 100.0	100.0	100.0	100.0	100.0 100.0
GR GR		100.0	100.0 100.0	100.0	100.0 100.0	100.0	100.0 100.0	-	100.0 100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ΨK	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ΨĎ	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
• • •	• • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • •

#### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: SEP HOURS: 06-08

				LST	TO UTC	: + 7					MONTH:	SEP	HOURS:	06-08			
•••	• • • • • •	•••••	• • • • • •	• • • • • •		• • • • • • •					• • • • • • •	• • • • • •	• • • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • •
	LING	<b></b>	œ	GE.	OP.		VISIBILI Ge	GE GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
I FE		GE 7	GE 6	6 <u>5</u>	GE 4	GE 3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
rb	P.	,	•	,	•					1 1/4		374	3/0			1/4	
•••			• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •			• • • • • • •	• • • • • •	• • • • • • •	•••••
жо	CEIL	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GB	20000	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE	18000	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE	16090	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE	14000	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE	12000	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE	10000	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GB	9000	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE	8000	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE	7000	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE	6000	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE	- 000	99.3	99.	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.7	99.7
GE	4-00	99.4	99.5	92.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9	99.9
GE	4. 10	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	3500	99.6	99.7	39.7	99.7 99.7	99.7 99.7	99.7	99.7	99.7	99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7	99.7	100.0	100.0
GE	3000	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.1	99.1	99.7	99.7	99.7	100.0	100.0
GE	2500	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	2000	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	1800	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	1500	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	1200	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	1000	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	900	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	800	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	700	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	600	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	500	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	400	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	300	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
GE	200	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
CE	100	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
	200																100 5
GB	000	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
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# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTE: SEP HOURS: 09-11

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CEILING	•			_		VISIBILI										_
IN	GE	GE	GE	Œ	GE	GE	GE	GB .	GE	GE	GB	GR	GE	GE	GE	GE
PEET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•••••	••••••				• • • • • •	• • • • • • •	• • • • • •				• • • • • •	• • • • • •	• • • • • •		• • • • • •	• • • • •
	İ															
NO CEII	82.4	82.5	92.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
	1															
GE 2000	0 87.4	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 1800			87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 1600	1		87.7	87.7	97.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
GB 1400			88.7	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 1200	1		94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
WB 1200	~  >4.1	74.2	74.2	94.2	94.3	74.3	34.3	34.3	34.3	94.3	94.3	94.3	34.3	34.3	94.3	94.3
GE 1000			96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 900			96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 800		-	97.0	97.0	97.2	97.2	97.2	97.2	97.2	د. 97	97.3	97.3	97.3	97.3	97.3	97.3
GB 700	10   97.0	97.2	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GB 600	Ю   97.8	98.0	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
	1															
GE 500	ю 98.2	98.3	98.4	98.4	98.6	98.6	98.6	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 450	0 98.6	98.7	99.0	99.0	99.2	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 400	0 99.0	99.1	99.3	99.3	99.5	99.5	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GB 350			99.3	99.3	99.5	99.5	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 300			99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>GE</b> 500	~ 33	22.6	77.4	22.4	39.0	33.0	33.0	37.3	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 250	0 99.1	99.2	99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200			99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		_							-							
GE 180			99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 150	1		99.4	99.4	99.6	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>CE</b> 120	ю  99.1	99.2	99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1															
GE 100	0 99.1	99.2	99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 90	0 99.1	99.2	99.4	99.4	99.8	99.8	99.8	59.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 80	ю  99.1	99.2	99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 70	0 99.1	99.2	99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 60	0 99.1	99.2	99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1															
GE 50	ю 99.1	99.2	99.1	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 40			99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 30			99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 20			99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
			_						_							
<b>CE</b> 10	0 99.1	99.2	99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>CE</b> 00	0 99.1	99.2	99.4	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
										<b></b>						

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: SEP HOURS: 12-14

				DOL	10 010	• • •					POULD.	OPE	noons.	14-14			
CEILI		•••••	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •					• • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	•••••
	re-	_							STATUTE			_				_	
IN	. 1	Œ	GE	GE	GE	GE	GB C	GE	GE	GE	GE	GE	GE	GE	GE	Œ	GE
PEET	1	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • • • •	• • • • •	•••••	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	•••••
NO CE	ц	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
	l																
GE 20	000	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
GE 18	1	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 16		90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GB 14	000	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 12	000	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 10	000	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GB 9	000	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 8	000	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 7	000	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 6	000	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 5	000	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 4	500	98.7	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GB 4	000	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 3	500	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 3	000 l	99.3	99.5	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 2	500	99.3	99.5	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 2	000	99.3	99.5	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1	800	99.3	99.5	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GR 1	500	99.3	99.5	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	200	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1	000	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	900	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.5	99.8	99.8	99.9	100.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600 l	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	300	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	200	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	100	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		22.0										200.0		100.0			_00.0
GE	000	99.5	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100-0	100.0	100.0	100.0	100.0	100.0
	1																
								•	•								

TOTAL NUMBER OF OBSERVATIONS 879

D - 2 - 68

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: SEP HOURS: 15-17

···	LING	•••••	• • • • • • •	• • • • • • •	• • • • • •	•••••		· · · · · · · · · · · · · · · · · · ·	STATUTE	MTT DO	• • • • • •	•••••	• • • • • • •	•••••	• • • • • •	• • • • • • •	• • • • • •
	M   Time	GE	GE	GE	Œ	GB	GE ATSIBID	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	BT .	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
FE	ът I	,	٠	,	•	,	2 1/6		1 1/2	1 1/4	•	3/4	370	1/2	370	1/4	U
•••	····i		•••••	• • • • • • •	• • • • • •	•••••	• • • • • • •	•••••			• • • • • • •	•••••	• • • • • • •		•••••	•••••	•••••
NO	CRIL	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE	20000	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
Œ	18000	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
Œ	16000	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
Œ	14000	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
Œ	12000	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
	- 1																
Œ	10000	97.3	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
Œ	9000	97.4	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GB	8000	97.6	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE	7000	97.8	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE	6000	99.0	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
CE	5000	99.5	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Œ	4500	99.5	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Œ	4000	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3500	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3000	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>CIE</b>	2500	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	2000	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1800	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1500	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1200	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1000	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	900	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	800	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	700	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	500	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	400	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	300	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	99.6	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
			• • • • • •		• • • • • • •			• • • • • •									

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: SEP HOURS: 18-20

CRI	LING	• • • • • •		• • • • • • •	• • • • • •	•••••	VISIBIL	 ITY IN	STATUTE	MILES	• • • • • •	•••••	•••••	• • • • • • •	•••••	•••••	•••••
	N	GE	GE	Œ	GB	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	BT	7	6	5	4	3	2 1/2	2		1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•••				• • • • • • •	-	-		- • • • • • • •		• • • • • •	- • • • • • • •	••••					
		1															
MO	CEIL	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
GE	20000	86.6	86.6	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE	18000	86.6	86.6	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
CE	16000	86.6	86.6	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE	14000	88.3	88.3	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE	12000	94.2	94.2	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
	10000	96.1	96.1	96.3	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE	9000	96.1	96.1	96.3	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE	8000 7000	96.4 96.4	96.4	96.6	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
	6000	98.6	96.4	96.6	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE	8000	30.0	98.6	98.8	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE	5000	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	4500	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	4000	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	3500	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	3000	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2500	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2000	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE.	1200	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	1000	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>GE</b>	900	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	800	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	500	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	400	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_	200								455.5								
Œ	000	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
								• • • <i>• •</i> • •									

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - PAR 91
LST TO UTC: + 7 MONTH: SEP HOURS: 21-23

 CB	LING	• • • • • •		• • • • • • •	•••••	••••••	viernii		STATUTE	MTT DO	• • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	•••••	•••••
	[N	GE	GE	GE	æ	GE	GE	GE	GE STWIATE	GE	GE	GB	GE	GE	GE	GE	GE
	KET.	7	6	5	4	3	2 1/2		1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
		, , , , , , , , , , , , , , , , , , ,					2 1/2	<del>.</del>	1 1/2	1 1/4		37 4	3/0	1,2	3/0	1/4	v
•		i I			•••••	•••••	•••••	•••••	•••••	• • • • • • •	• • • • • • •	•••••	•••••	•••••	•••••	•••••	•••••
NO	CEIL	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
Œ	20000	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
Œ	18000	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
Œ	16000	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
Œ	14000	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
Œ	12000	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
		ļ															
Œ	10000	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
Œ	9000	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
Œ	8000	97.9	97.9	97.9	9.72	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
Œ	7000	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
Œ	6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		1															
Œ	5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3000	100.0	100.0	100.0	100.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		l															
Œ		100.0	100.0	100.0	100.0	100.0		100.0		100.0	100.0		100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_																	
GE		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_																	
Œ		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100 0	100.0
45	000	1100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722785 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: SEP HOURS: ALL

				POL	10 010	. + /					MONTH:	SEP HO	UKS: AL	և			
CEI	LING	• • • • • • •	•••••	• • • • • •	• • • • • •	,	VISIBILI		STATUTE			• • • • • •	•••••	•••••	•••••	• • • • • • •	•••••
I		GR	GE	Œ	GE	CE	GE	GE	GR	GB	GE	GE	GE	GE	GE	GB	GE
FE		7	6	5	4	3	2 1/2	2		1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
		• • • • • •		• • • • • • •		• • • • • •				•••••			•••••		•••••		
NO	CEIL	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE :	20000	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE :	18000	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
CE	16000	88.4	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE	14000	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
CE	12000	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE	10000	96.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
CE	9000	96.8	96.8	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE	8000	97.2	97.2	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
CE	7000	97.3	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE	6000	98.6	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
	- 1																
CE	5000	99.1	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
GB	4500	99.2	99.3	99.4	99.5	99.6	99.€	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
CE	4000	99.4	99.5	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
GR	3500	99.4	99.5	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
GE	3000	99.5	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	2500	99.5	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
CE	2000	99.5	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
CE	1800	99.5	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	1500	99.5	99.6	99.7	99.7	99.9	9.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GB	1200	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE GE	1000	99.5 99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	900		99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800 700	99.5 99.5	99.6 99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.5	99.6	99.7 99.7	99.8 99.8	99.9 99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
45	800	33.3	99.0	33.7	99.0	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
																100.0	200.0
CE	000	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

### PERCENTEAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: OCT HOURS: 03-05

					20 010	• • •						001	noore.	03-03			
		•••••	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • •					• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
CEILI	LING .								STATUTE								
IN		GE	Œ	GE	GE	GR	GE	GE	GB	GE	GE	GE	GE	GE	Œ	GE	GE
PERI	•	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
	· • • • •																
	- 1																
NO CE	ett. I	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
					0	0.45		J. 13		0.05	05	0	07.5	0	07.5	0,.3	01.5
GR 20	امما	90.6	90.6	90.6	90.6	90.6	90.6	90.6	00 6	00 6	00.6	00.6	^^			00.5	
									90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 18	- 1	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 16	- 1	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 14	1000	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
CE 12	2000	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
	- 1																
CE 10	2000	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
CZR 9	2000 l	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
	1000	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
	1000	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1								-
	- 1									98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
CR 6	5000	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
	5000	99.5	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
CE 4	1500	99.5	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
<b>CE</b> 4	1000	99.5	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 3	500	99.5	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.0	99.8	99.8	99.8	99.8	99.8
<b>CE</b> 3	1000	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CER 2	2500	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	2000	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	800	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	500	99.8															
			99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE 1	1200	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1000	99.8	99.8	99.8	99.8	100.0		100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0
CE .	900	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	800	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	700	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	600	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	500	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CIR	400	99.8	99.8	99.8	99.8	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GZE.	300	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	200															•	100.0
. –		99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	100	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
••••	• • • •	•••••	• • • • • • •	• • • • • • •			• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •			• • • • • •	• • • • • •	

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: OCT HOURS: 06-08

•••	• • • • •			• • • • • • •	• • • • • • •		• • • • • • •		• • • • • • •	•••••		• • • • • •	• • • • • •	• • • • • •		• • • • • • •	•••••
	Ling	_					VISIBILI										
I		GE	GE	GIS.	GE	GE.	GE	GE.	GE	GE	GE	GE	GE	GE	GE	GE	GE
FE	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
	• • • • • •			• • • • • •	• • • • • • •	• • • • • •	• • • • • • • •	•••••	• • • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	•••••
NO	CBIL.	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2
CE	20000	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
CE	18000	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2
CE	16000	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3
CE	14000	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE	12000	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE	10000	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
CE	9000	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE	8000	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE	7000	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2
CE	6000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
			•						_								
GE	5000	98.5	98.5	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
CE	4500	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE	4000	99.2	99.2	99.2	99.2	99.3	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	3500	99.3	99.3	99.3	99.3	99.5	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
CE	3000	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2500	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2000	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	99.6	99.5	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1200	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	800	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	700	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	500	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	300	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	200	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	000	99.6	99.6	99.6	99.6	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

# FERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: OCT HOURS: 09-11

CBI	 Ling	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	•••••	VISIBIL	 ITY IN	STATUTE	MILES	• • • • • •	•••••	• • • • • • •	•••••	•••••	•••••	•••••
I	N I	GE	Œ	GB	GE            GE	GE	GE	GE	GE	GE							
FE	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
		, 		• • • • • •	• • • • • •												
NO	CRIL	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
	20000	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
	18000	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
	16000	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
	14000	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
Œ	12000	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
_	10000	95.4	05.4						05.4								4
			95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
Œ	9000 8000	95.7 95.9	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE	7000	95.9	95.9 95.9	95.9 95.9	95.9 95.9	95.9 95.9	95.9 95.9	95.9 95.9	95.9 95.9	95.9 95.9	95.9	95.9 95.9	95.9 95.9	95.9 95.9	95.9	95.9 95.9	95.9
CE	6000	97.2				97.4					95.9			-	95.9		95.9
ws	8000	37.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GR	5000	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
Œ	4500	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE	4000	99.3	99.3	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
Œ	3500	99.3	99.3	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
Œ	3000	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
-	3000	33.0	33.0	77.0	23.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	2500	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	2000	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1800	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1500	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1200	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
									•								
Œ	1000	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	900	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	800	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	700	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	500	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	400	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	300	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	200	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
				• • • • • • •													

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: OCT HOURS: 12-14

CRI	LING	•••••	•••••	• • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •	 Visibili		STATIFFE	MITERS	•••••	•••••	•••••	• • • • • •		• • • • • •	•••••
	N I	GE	GE	GE	GE	Œ	GE	GE	GE	GE	GE	GE	GE	GE	GE	Œ	GE
	ET	7	6	5	4	3	2 1/2	2	1 1/2			3/4	5/8	1/2	3/8	1/4	0
• • • •		· • • • • • •			<del>.</del>						-						
	1								••••								
MO	CEIL	83.3	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE	20000	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE	18000	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	\$1.1
GE	16000	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE	14000	91.6	91.6	91.6	91.7	91.7	91.7	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE	12000	94.8	94.8	94.8	94.9	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE	10000	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
Œ	9000	96.1	96.1	96.4	96.5	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
Œ	8000	96.7	96.7	96.9	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE	7000	96.8	96.8	97.0	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE	6000	97.5	97.5	97.7	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GB	5000	98.6	98.6	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE	4500	98.6	98.6	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE	4000	99.1	99.1	99.3	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
CE	3500	99.1	99.1	99.3	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE	3000	99.2	99.2	99.4	99.6	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	1																
GB	2500	99.2	99.2	99.4	99.6	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	2000	99.2	99.2	99.4	99.6	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99. <del>9</del>	99.9	99.9	99.9
GE	1800	99.2	99.2	99.4	99.6	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GB	1500	99.2	99.2	99.4	99.6	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
CE	1200	99.2	99.2	99.4	99.6	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1000	99.2	99.2	99.4	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.2	99.2	99.4	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	800	99.2	99.2	99.4	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.2	99.2	99.4	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	600	99.2	99.2	99.4	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	99.2	99.2	99.4	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.2	99.2	99.4	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	300	99.2	99.2	99.4	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	200	99.2	99.2	99.4	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.2	99.2	99.4	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	- 1																
GE	000	99.2	99.2	99.4	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: OCT HOURS: 15-17

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CRII							VISIBIL										
I		GE	Œ	GE	Œ	GB	Œ	GB	GE	GE	Œ	GE	GE	GE	GE	GE	GE
FK	17	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
NO C	BIL	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
CER 2	20000	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
-	18000	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
	6000	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
	14000	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
CE 1	2000	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 1	10000	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
Œ	9000	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
Œ	8000	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
Œ	7000	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
Œ	6000	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
_			• • • • • • • • • • • • • • • • • • • •						3						2	2	2
CE	5000	98.9	98.9	98.9	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE	4500	98.9	98.9	98.9	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
	,																
Œ	4000	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
Œ	3500	99.1	99.1	99.1	99.1	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
Œ	3000	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE	2500	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
Œ	2000	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
CE	1800	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	1500	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
Œ	1200	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
															-		
CE	1000	99.3	99.4	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.3	99.4	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.3	99.4	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	700											100.0	100.0	100.0	100.0		
Œ		99.3	99.4	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0					100.0	100.0
Œ	600	99.3	99.4	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	500	99.3	99.4	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	400	99.3	99.4	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	300	99.3	99.4	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.3	99.4	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	99.3	99.4	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
				· · •				<del>-</del>							<del>-</del>		
Œ	000	99.3	99.4	99.4	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		23.3	,,. <del>.</del>	JJ.4	<b>,,,</b> ,	,,,,	,,.0	100.0	200.0	100.0	200.0	100.0	200.0	100.0	200.0	100.0	200.0
••••			• • • • • • •	• • • • • •	• • • • • •	• • • • • •	******	• • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	•••••

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: OCT HOURS: 18-20

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	LING			_					STATUTE								
I		GE	GE	GB	GE	GB	GE	GE	GE	GE	GE	GE	GB	GE	GE	GE	GE
PE	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•••	••••		• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •
NO	CEIL,	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GR .	20000	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
	18000	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
	16000	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
	14000	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
	12000	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
		}	22.0	33.0	33.0	33.0	33.0		3210	22.0	2010	33.0	2000	33.0	5010	33.0	33.00
GE	10000	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE	9000	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
CE	8000	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE	7000	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
CE	6000	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
							2	2									
GE	5000	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE	4500	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
											_				-		
GE	2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1200	100.0	100.0	100.0	100.0		100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0			100.0			100.0		100.0	100.0	100.0	100.0	100.0	100.0
			222.0			2000								300.0	200.0		
GE	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: OCT HOURS: 21-22

CR	### VISIBILITY IN STATUTE MILES  IN   GE GE GE GE GE GE GE GE GE GE GE GE GE																
		GR	GR.	GR	GR						GR	GR	GR.	GR	GR	GR	GE
		1															
								- 			-						
		1															
NO	CEIL	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GR	20000	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
	18000	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
	16000	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE	14000	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
Œ	12000	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
		<b>.</b>															
GE.	10000	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
Œ	9000	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
Œ	8000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
Œ	7000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
Œ	6000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
		Í															
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CIR		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		<b>.</b>															
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	130.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CES		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	000	1.00.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_			2000														
GB	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		• • • • • •					• • • • • • •			• • • • • •	• • • • • •	•••••			• • • • • •		• • • • •

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: OCT HOURS: ALL

	IN GE GE GE GE GE GE GE GE GE GE															
CEILING	• • • • • • •	•••••	• • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	VISIBIL	ITY IN	STATUTE	MILES	• • • • • •	•••••	•••••		• • • • • •	• • • • • • •	•••••
	l con	GR	Œ	GR						GR	CR	GR	CIR.	GR	æ	CE
FEET	7	6	5	4	3	2 1/2	2		1 1/4		3/4	5/8	1/2	3/8	1/4	0
	'	•	,	•	•	2 1/2	-	1 1/2	1 1/4	-	374	370	1/2	3/0	1/4	·
•••••	1	••••	• • • • • • •	• • • • • • •	• • • • • • •			•••••		• • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	•••••
NO CEIL	82.7	82.7	82.7	82.7	82.7	82.7	02.2	00.7	02.7	00.7	00.7	00.7	02.7	00.7	00.7	00.7
MO CELL	02.7	02.7	02.7	02.7	02.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
~																
GE 20000	1	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 18000		89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 16000		89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 14000		90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GB 12000	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 10000		95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 9000		96.2	96.2	96.2	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 8000	1	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GB 7000	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GB 6000	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97 3	97.8	97.8	97.8	97.8	97.8	97.8
	Į.															
GB 5000		90.9	98.9	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GB 4500	98.9	98.9	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 4000	99.3	99.3	99.4	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 3500	99.4	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 3000	99.6	99.6	99.6	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	1															
GE 2500	99.6	99.6	99.6	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GR 2000	99.6	99.6	99.6	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 1800	99.6	99.6	99.6	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 1500	99.6	99.6	99.6	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 1200	99.6	99.6	99.6	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	1															
GB 1000	99.6	99.6	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 900	99.6	99.6	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800	99.6	99.6	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 700	99.6	99.6	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	7	99.6	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
									2000	20000	20000	20000		20010	20000	200.0
GB 500	99.6	99.6	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	99.6	99.6	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	100.0	100.0
GB 300	1	99.6	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 200	1	99.6	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB 100	1	99.6	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
25 100	7,,,,	33.0	23.0	33.1	22.3	22.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	00.0	100.0	100.0
GE 000	99.6	99.6	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	1 33.0	22.0	33.0	22.1	33.3	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • •	• • • • • • •	•••••	• • • • • • •	· · · · · ·	• • • • • • •	•••••

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: NOV HOURS: 03-05

CR	LING	• • • • • •	• • • • • •	•••••	•••••		VISIBIL	 יייע זא	STATIFTE	MTT.RR	· · · · · ·	•••••	• • • • • •	• • • • • • •	• • • • • • •		•••••
	en	GE	GE	GE	GB	GE	GE	GB	GE	GE	GE	GE	GE	GE	Œ	GE	GΒ
	BT.	7	6	5	4	3	2 1/2	2	1 1/2		1	3/4	5/8	1/2	3/8	1/4	0
•••					• • • • • • •					••••	- • • • • • • •						
	- 1																
MO	CEIL	88.2	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
CIR	20000	90.5	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
Œ	18000	90.5	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
Œ	16000	90.5	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
Œ	14000	د . 91	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
Œ	12000	93.1	93.1	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
Œ	10000	95.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
Œ	9000	95.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
Œ	8000	95.9	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
Œ	7000	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
Œ	6000	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
Œ	5000	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
Œ	4500	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE	4000	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
Œ	3500	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
Œ	3000	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
Œ	2500	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
Œ	2000	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1800	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1500	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1200	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	800	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_	***	3300	22	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	500	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	400	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	300	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
					_			-									3
Œ	000	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
										<b></b> .					_		_

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTE: NOV BOURS: 06-08

	LST TO UTC: + 7 MONTH: NOV HOURS: 06-08  CEILING VISIBILITY IN STATUTE MILES																
CEI	LING	• • • • • •	•••••	• • • • • • •		• • • • • • •	visibili	TY IN	STATUTE	MILES	• • • • • •	•••••	• • • • • •				
1		GE	GE	GE	GE	GE	GE	GE	GE	Œ	GE	GE.	GE	GE	GE	GE	GE
FE	ET	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•••	•••••		• • • • • • •	• • • • • • •	•••••	• • • • • •	• • • • • • • •	•••••		•••••	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	
<b>#</b> O	CBIL	84.2	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
GB :	20000	87.1	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE :	18000	87.4	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE :	16000	87.4	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GB :	14000	88.4	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE :	12000	90.0	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE :	10000	92.9	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE	9000	92.9	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE	8000	94.6	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE	7000	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GB	6000	96.1	96.2	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE	5000	97.1	97.2	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE	4500	97.1	97.2	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE	4000	97.8	98.0	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE	3500	98.1	98.4	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE	3000	98.4	98.7	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GB	2500	98.4	98.7	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	2000	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1800	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1500	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1200	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1000	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	900	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	800	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	700	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	600	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	500	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Œ	400	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	37.9	99.9	99.9	99.9
GB	300	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE	200	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE	100	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE	000	98.7	99.0	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
•••	• • • • •	•••••	• • • • • • •	• • • • • •	• • • • • • •			•••••		•••••	• • • • • •	• • • • •	• • • • • • •		• • • • • •	• • • • • •	

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: NOV HOURS: 09-11

CTE 1	VISIBILITY IN STATUTE MILES  IN GE GE GE GE GE GE GE GE GE GE GE GE GE																
	IN GR GR GR GR GR GR GR GR GR GR GR GR GR																
	1																
	,			• • • • • •							-						
Ю	CEIL	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
Œ	20000	87.1	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
Œ	18000	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE	16000	87.6	87.6	87.6	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
Œ	14000	88.4	88.4	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
CE	12000	90.2	90.2	90.2	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
	10000	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
Œ	9000	92.0	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
Œ	8000	93.9	94.0	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
Œ	7000	94.0	94.1	94.1	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
Œ	6000	95.1	95.2	95.3	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
Œ	5000	97.1	97.2	97.3	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
CR	4500	97.1	97.2	97.3	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GB	4000	98.1	98.2	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE	3500	98.2	98.4	98.5	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
CE	3000	98.9	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
_	25.00																
GE	2500 2000	98.9 98.9	99.1 99.1	99.2 99.2	99.2 99.2	99.6 99.6	99.6 99.6	99.6 99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE GE	1800	98.9	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	1500	98.9	99.1	99.2	99.2	99.8	99.8	99.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE.	1200	99.1	99.1	99.2	99.2	99.8	99.8		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GAD.	1200	33.1	33.2	33.3	33.3	33.3	37.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1000	99.1	99.2	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Œ	900	99.1	99.2	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Œ	800	99.1	99.2	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Œ	700	99.1	99.2	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Œ	600	99.1	99.2	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Œ	500	99.1	99.2	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE	400	99.1	99.2	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
CE	300	99.1	99.2	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
Œ	200	99.1	99.2	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
Œ	100	99.1	99.2	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
	l																
Œ	000	99.1	99.2	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
• • •	• • • • • •		• • • • • • •	• • • • • •		• • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • •	•••••	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: NOV HOURS: 12-14

CRI	EILING VISIBILITY IN STATUTE MILES  IN GE GE GE GE GE GE GE GE GE GE GE GE GE																
	IN GE GE GE GE GE GE GE GE GE GE GE GE GE																
	(	••••	-	• • • • • • •	-						- 						
MO	CEIL	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE	20000	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	B7.7	87.7	87.7	87.7	87.7	87.7	87.7
GE	18000	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE	16000	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE	14000	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE	12000	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE	10000	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE	9000	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE	8000	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GB	7000	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE	6000	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE	5000	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE	4500	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GB	4000	98.6	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE	3500	98.9	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE	3000	99.1	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	i																
GE	2500	99.1	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	2000	99.1	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
CE	1800	99.1	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	1500	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1200	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	700	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	600	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
				00.6													
GE	500	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		00.0		00.6	<b>50</b> 5		100 5	100 -									
GE	000	99.2	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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#### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: NOV BOURS: 15-17

	LING	• • • • • •	•••••	•••••	• • • • • • •	•••••	VISIBILI	 TV IN		MTT.PQ	• • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • •
	H	GE	Œ	GE	GIE	GE	GB	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	BT.	7	6	5	4	3	2 1/2	2	1 1/2		1	3/4	5/8	1/2	3/8	1/4	0
		, , , , , , ,									_ 						
RO	CEIL	79.5	79.6	79.6	79.6	79.6	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
Œ	20000	89.8	89.9	89.9	89.9	89.9	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
CE	18000	90.3	90.5	90.5	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
Œ	16000	90.7	90.9	90.9	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE	14000	91.0	91.1	91.1	91.1	91.1	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
Œ	12000	93.1	93.3	93.3	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE	10000	94.6	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
Œ	9000	94.6	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
<b>GE</b>	8000	94.8	95.0	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
Œ	7000	95.0	95.1	95.1	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
Œ	6000	96.2	96.3	96.3	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
Œ	5000	97.2	97.4	97.5	97.5	97.5	97.6	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
Œ	4500	97.2	97.4	97.5	97.5	97.5	97.6	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
Œ	4000	98.5	98.7	98.9	99.1	99.1	99.2	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
Œ	3500	98.7	98.8	99.1	99.2	99.2	99.3	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
Œ	3000	98.9	99.1	99.3	99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	2500	98.9	99.1	99.3	99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	2000	98.9	99.1	99.3	99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	98.9	99.1	99.3	99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1500	98.9	99.1	99.3	99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	1200	98.9	99.1	99.3	99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_																	
GE	1000	98.9	99.1	99.3	99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	900	98.9	99.1	99.3	99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	98.9	99.1	99.3	99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
æ	700	98.9	99.1	99.3	99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	98.9	99.1	99.3	99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
_	500	98.9	00.1	99.3	00 E							400 0					400.0
æ			99.1		99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE GE	400 300	98.9 98.9	99.1	99.3	99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	98.9	99.1	99.3	99.5 99.5	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	98.9	99.1 99.1	99.3 99.3	99.5	99.6 99.6	99.7 99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
45	100	30.3	77.1	77.3	77.3	33.0	77.1	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	000	98.9	99.1	99.3	99.5	99.6	99.7	99.9	00 0	100.0	100.0	100.0	100 0	100.0	100 0	100.0	100.0
		, ,,,,,			,,,,	33.0	33.1	22.3	22.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

OPERATING LOCATION "A" USAFRTAC. ASHRVILLE NC

STATION NEMBER: 722786

#### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 MONTH: NOV HOURS: 18-20 LST TO UTC: + 7 CRILING VISIBILITY IN STATUTE MILES IN CR GR Œ GR Œ GE GE GR GR GR GE GE GE GR Œ GR PERT 6 5 4 3 2 1/2 1 1/2 1 1/4 3/4 5/8 1/2 3/8 1/4 1 83.0 83.0 83.0 63.0 83.0 NO CRIL 83.0 83.0 83.0 83.0 83.0 83.0 83.0 83.0 83.0 83.0 83.0 GE 20000 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 GR 18000 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 **GE 16000** 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3 GE 14000 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 90.7 GR 12000 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 GE 10000 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 GR 9000 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7 CR 8000 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 7000 96.1 96.1 96.1 96.1 96.1 Œ 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 97.2 97.4 97.4 Œ 6000 97.2 97.2 97.2 97.4 97.4 97.4 97.4 97.4 97.4 97.4 97.4 97.4 97.4 CR 5000 97.6 97.6 97.6 97.6 97.8 97.8 98.0 98.0 98.0 98.0 98.0 98.0 98.0 98.0 98.0 98.0 GE 4500 97.6 97.6 97.6 97.6 97.8 97.8 98.0 98.0 98.0 98.0 98.0 98.0 98.0 98.0 98.0 98.0 4000 QA.O GR.O 98.0 98.0 98.2 QR.A 98.4 QR.A 98.4 98.4 98.4 QR.A QR.A CR 98.7 98.4 QR A CR 3500 98.4 98.4 98.4 98.4 98.6 98.6 98.8 98.8 98.8 98.8 98.8 98.8 98.8 98.8 98.8 98.8 GR 3000 99.2 99.2 99.2 99.2 99.6 99.6 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 GE 2500 99.4 99.4 99.4 99.4 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 CR 2000 99.4 99.4 99.4 99.4 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 CR 1800 99.4 99.4 99.4 99.4 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 1500 99.4 99.4 99.4 99.4 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 1200 99.4 99.8 100.0 100.0 100.0 100.0 100.0 99.4 99.4 99.4 99.8 Œ 1000 99.4 99.4 99.4 99.4 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 99.4 900 99.4 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 99.4 99.4 99.8 99.8 GE 800 99.4 99.4 99.4 99.4 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 700 99.4 99.4 99.4 99.8 GE 99.4 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 99.8 99.4 æ ഹവ 99.4 99.4 99.4 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 500 99.4 GR 99.4 99.4 99.4 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 CR 400 99.4 99.4 99.4 99.4 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 300 99.4 100.0 100.0 100.0 100.0 100.0 GB 99.4 99.4 99.4 99.8 100.0 100.0 100.0 100.0 100.0 99.8

TOTAL NUMBER OF OBSERVATIONS 507

99.4

99.4 99.4

99.4

99.4

99.4

99.4

99.8

99.8

99.8

99.8

100.0

100.0

100.0 100.0

99.4 99.8 99.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

100.0

100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

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GE

200

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99.4

99.4

000 99.4

OPERATING LOCATION "A" USAPETAC, ASHEVILLE NO

## PERCENTAGE PREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTE: NOV HOURS: 21-23

		• • • • • •		•••••	• • • • • • •	•••••					• • • • • •	•••••	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •
	ling —	۱	-		_				STATUTE		~	an.	an.	an.	~	O.E.	am.
I		GB   7	Œ	GE 5	GE 4	GE	GE .	GE	GE	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GIE O
PE	B.I.	, ,	6	3	•	3	2 1/2	2	1 1/2	1 1/4	1	3/4	3/6	1/2	3/0	1/4	U
•••	• • • • •		• • • • • • •	•••••	• • • • • • •	•••••	• • • • • • •		• • • • • • •	• • • • • •	• • • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • •
100	CRIL	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
Œ	20000	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
Œ	18000	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
CE	16000	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
CE	14000	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
CE	12000	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
		ļ															
	10000	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
Œ	9000	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
Œ	8000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
Œ	7000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
Œ	6000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
_					4												
Œ	5000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
Œ	4500	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
Œ	4000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
CE	3500	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
Œ	3000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE	2500	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE	2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE.	1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		1															
CE	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		1															
GE.		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CIE.		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ÇE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
							***	400 0									
CIE .	000	1700.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

OPERATING LOCATION "A" USAFETAC, ASSEVILLE NO

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: NOV HOURS: ALL

														<b></b>			
CRI	LING					,	VISIBILI	TY IN	STATUTE	MILES							
	m	COR	GE	GE	GE	GE	GE	GE	GE	GB	GE	GE	GE	GE	GB	GE	GE
	ET	7	6	5	4	3	2 1/2	2	1 1/2			3/4	5/8	1/2	3/8	1/4	0
		, , , , , , , ,			• • • • • • • •						<u>.</u>						
•••		1							•••••	• • • • • • •	• • • • • •	•••••	•••••			• • • • • • •	•••••
MO	CEIL	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
										0211	04.0	02.0					02.0
CR	20000	88.4	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
	18000	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
	16000	88.9	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
	14000	89.5	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
	12000	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
40	12000	34.4	71.4	71.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	91.5	31.3
æ	10000	93.4	93.5	93.5	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GE	9000	93.4	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GE	8000	94.8	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE	7000	94.9	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.0	95.1	95.1	95.1	95.1	95.0	95.1	95.0
GE	6000	96.0	96.1	96.2	96.2	96.3	96.3	96.3	96.3		96.3		96.3	96.3	96.3		
G.D.	8000	30.0	30.1	90.4	30.4	30.3	50.5	90.3	90.3	96.3	90.3	96.3	90.3	90.3	90.3	96.3	96.3
GE	5000	97.5	97.6	97.7	97.7	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE	4500	97.5	97.6	97.7	97.7	97.9	97.9	97.9									
					-				97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE GE	4000 3500	98.3	98.4	98.6	98.6	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
		98.5	98.7	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
CE	3000	98.9	99.1	99.3	99.3	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
-	2500	00.0	•														
GE	2500	99.0	99.1	99.3	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE	2000	99.1	99.2	99.4	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE	1800	99.1	99.2	99.4	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
CE	1500	99.1	99.3	99.5	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	1200	99.1	99.3	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1000	99.1	99.3	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.1	99.3	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.1	99.3	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.1	99.3	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	600	99.1	99.3	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	99.1	99.3	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.1	99.3	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	300	99.1	99.3	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.1	99.3	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.1	99.3	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	000	99.1	99.3	99.5	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
•••	• • • • • •	• • • • • •		• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •			• • • • • •	• • • • • •	• • • • • •

PERATING LOCATION "A" ISAFETAC, ASHEVILLE NO

## PERCENTAGE PREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

FTATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: DEC HOURS: 03-05

					10 010	•					MUNIH:		HOURS:				
BIL	ING	•••••	• • • • • • •	• • • • • •	• • • • • • •	•••••	VISIBILI	TY IN	STATUTE	MILES	• • • • • •	•••••	• • • • • • •	•••••			
IN	ı l	GE	CE	GR	GE	GE	GE	GE	GE	GE	Œ	GE	Œ	GE	GE	GB	GE.
PER	T	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
		•••••	• • • • • •	• • • • • •	• • • • • •		• • • • • • • •	•••••		• • • • • •	• • • • • •	• • • • • •	· · · · · · · ·	•••••			
юс	RIL	78.8	78.8	78.8	78.8	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
Æ 2	0000	84.7	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
進 1	8000	84.7	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
惠 1	6000	84.7	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
運 1	4000	85.3	85.3	85.3	85.3	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
<b>E</b> 1	2000	87.7	87.7	87.7	87.7	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
<b>3</b> 1	0000	89.9	89.9	89.9	89.9	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
	9000	90.5	90.5	90.5	90.5	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
18	8000	92.0	92.0	92.0	92.0	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
E	7000	92.3	92.3	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
	6000	92.9	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
Œ	5000	94.5	94.5	94.5	94.5	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
4	4500	94.5	94.5	94.5	94.5	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
	4000	96.0	96.0	96.0	96.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
	3500	96.0	96.0	96.0	96.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2	3000	96.9	96.9	96.9	96.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
	2500	98.2	98.2	98.2	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	2000	98.2	98.2	98.2	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
8	1800	98.2	98.2	98.2	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	1500	98.2	98.2	98.2	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	1200	98.2	98.2	98.2	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
8	1000	98.2	98.2	98.2	98.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
8	900	98.2	98.2	98.2	98.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
8	800	98.2	98.2	98.2	98.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
葚	700	98.2	98.2	98.2	98.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
2	600	98.2	98.2	98.2	98.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
E	500	98.2	98.2	98.2	98.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
E	400	98.2	98.2	98.2	98.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
E	300	98.2	98.2	98.2	98.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
B	200	98.2	98.2	98.2	98.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
B	100	98.2	98.2	98.2	98.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0
E	000	98.2	98.2	98.2	98.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0

OPERATING LOCATION "A" USAPETAC, ASHEVILLE NC

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7
MONTH: DEC HOURS: 06-08

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CRII		_	~~				VISIBILI 					_					
I		Œ	GE	GE.	GE	Œ	GE	Œ	GE	GB	GE	GE	GB	GE	GE	GE	GE
PRE	1T	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • • •	• • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •
NO C	BIL	76.0	76.0	76.3	76.4	76. <del>6</del>	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.7	76.7
	90000	80.9	80.9	81.2	81.3	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.6	81.6
GE 1	8000	81.5	81.5	81.8	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.2	82.2
GB 1	6000	81.6	81.6	81.9	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.4	82.4
GE 1	4000	83.4	83.4	83.7	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.2	84.2
GE 1	2000	86.0	86.0	86.3	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.8	86.8
GE 1	0000	88.9	88.9	89.2	89.4	89.5	89.5	89.5	89.5	89.5	89.7	89.7	89.7	89.7	89.7	89.8	89.8
GB	9000	89.4	89.4	69.7	89.8	90.1	90.1	90.1	90.1	90.1	90.3	90.3	90.3	90.3	90.3	90.4	90.4
GE	8000	90.7	90.7	91.0	91.2	91.6	91.6	91.6	91.6	91.6	91.8	91.8	91.8	91.8	91.8	91.9	91.9
GE	7000	91.0	91.0	91.3	91.5	91.9	91.9	91.9	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.2	92.2
GE	6000	91.9	91.9	92.2	92.4	93.2	93.2	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.5	93.5
GR	5000	94.1	94.1	94.4	94.5	95.3	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.6	95.6
GR	4500	94.1	94.1	94.4	94.5	95.3	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.6	95.6
CE	4000	95.7	95.9	96.2	96.4	97.3	97.3	97.3	97.3	97.3	97.6	97.6	97.6	97.6	97.6	97.7	97.7
GE	3500	96.0	96.2	96.5	96.7	97.6	97.6	97.6	97.6	97.6	97.9	97.9	97.9	97.9	97.9	98.0	98.0
GE	3000	96.7	96.8	97.1	97.3	98.2	98.2	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.8	98.8
	احدد	30.,	30.0	2.42	33	,,,,	30.2	30.3	50.5	50.5	30.0	30.0	30.0	30.0	50.0	30.0	30.0
GE	2500	97.0	97.1	97.7	97.9	98.8	98.8	98.9	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.4	99.4
GE	2000	97.0	97.1	97.9	98.0	98.9	99.1	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.8	99.8
CE	1800	97.0	97.1	97.9	98.0	98.9	99.1	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.8	99.8
GE	1500	97.0	97.1	97.9	98.0	98.9	99.1	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.8	99.8
	1200	97.0	97.1	97.9	98.0	98.9	99.1	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.8	99.8
		31.0	,,,,	31.5	30.0	30.3	33.1	<i>33.</i> 4	<b>99.4</b>	33.4	,,,,	3200	33.7	,,,,	33.1	33.0	33.0
GE	1000	97.0	97.1	97.9	98.0	99.1	99.2	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	100.0	100.0
GE	900	97.0	97.1	97.9	98.0	99.1	99.2	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	100.0	100.0
GE	800	97.0	97.1	97.9	98.0	99.1	99.2	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	100.0	100.0
GE	700	97.0	97.1	97.9	98.0	99.1	99.2	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	100.0	100.0
GE	600	97.0	97.1	97.9	98.0	99.1	99.2	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	100.0	100.0
G.S.	000	37.0	37.1	37.3	30.0	33.1	33.2	33.3	33.3	33.3	33.0	33.0	33.0	33.0	99.0	100.0	100.0
	500	97.0	07.1	07.0	00.0	00 1	00.2	00 5	00 E	00 6	00.0	00.0	00 0	00 0	00.0	100.0	100 0
GE			97.1	97.9	98.0	99.1	99.2	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	100.0	100.0
GE	400	97.0	97.1	97.9	98.0	99.1	99.2	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	100.0	100.0
GE	300	97.0	97.1	97.9	98.0	99.1	99.2	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	100.0	100.0
GE	200	97.0	97.1	97.9	98.0	99.1	99.2	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	100.0	100.0
GE	100	97.0	97.1	97.9	98.0	99.1	99.2	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	100.0	100.0
CE	000	97.0	97.1	97.9	98.0	99.1	99.2	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	100.0	100.0

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

## PERCENTAGE PREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: DEC HOURS: 09-11

•••				• • • • • •													• • • • •
	LING						VISIBILI										
I		GE	Œ	GE	Œ	GE	GB.	GE	GE	GE	GB	GB	GE	GE	GE	GE	Œ
PE	BT	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
•••	•••••	• • • • • •		• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	•••••	• • • • • • •				• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
NO	CEIL	72.9	73.0	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE :	20000	79.2	79.3	79.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
CE	18000	80.0	80.1	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
	16000	80.0	80.1	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
	14000	81.9	82.1	82.4	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE .	12000	83.6	83.7	84.0	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
CE	10000	87.5	87.6	88.0	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
Œ	9000	88.1	88.2	88.5	88.9	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
CE	8000	89.4	89.5	89.8	90.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
Œ	7000	90.4	90.5	90.9	91.2	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
Œ	6000	90.9	91.0	91.3	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
CE	5000	92.6	92.7	93.1	93.4	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
CE	4500	92.5	92.7	93.1	93.4	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
Œ	4000	94.7	94.9	95.3	95.6	96.3	96.4	96.4	96.5	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
CE	3500	94.8	95.0	95.4	95.7	96.4	96.5	96.5	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9
CE	3000	95.0	95.4	95.7	96.1	96.9	97.1	97.2	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7
Œ	2500	95.0	95.4	95.7	96.1	96.9	97.1	97.2	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7
CZZ	2000	95.3	95.8	95.7 95.3	96.6	97.9	98.1	98.3	97.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7
Œ	1800	95.3	95.8	96.3	96.6	97.9	98.1	98.3	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7
CZE.	1500	95.3	95.8	96.3	96.6	98.1	98.4	98.6	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
<u> </u>	1200	95.4	95.9	96.4	96.8	98.3	98.5	98.7	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
	1200	33.4	,,,,	30.4	30.0	30.3	30.3	30.7	33.2	33.1	33.3	33.3	33.3	,,,,	JJ.3	33.3	33.3
CE	1000	95.4	95.9	96.4	96.8	98.3	98.6	98.8	99.2	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5
<b>GE</b>	900	95.4	95.9	96.4	96.8	98.3	98.6	98.8	99.2	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5
Œ	800	95.4	95.9	96.4	96.8	98.5	98.8	99.1	99.4	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8
Œ	700	95.4	95.9	96.4	96.8	98.5	98.8	99.1	99.4	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8
CE	600	95.4	95.9	96.4	96.8	98.5	98.8	99.1	99.4	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9
GE	500	95.4	95.9	96.4	96.8	98.5	99.0	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0
CE	400	95.4	95.9	96.4	96.8	98.5	99.0	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0
Œ	300	95.4	95.9	96.4	96.8	98.5	99.0	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0
GB	200	95.4	95.9	96.4	96.8	98.5	99.0	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0
Œ	100	95.4	95.9	96.4	96.8	98.5	99.0	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0
CE	000	95.4	95.9	96.4	96.8	98.5	99.0	99.2	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0
•••		•••••	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • • •	•••••	• • • • • • •		•••••	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •

OPERATING LOCATION "A" USAFETAC, ASSEVILLE NC

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: DEC HOURS: 12-14

				POT	TO UTC	. • /					MONTO:	DEC	HOURD:	12-14			
CEILI		•••••	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	VISIBILI				•••••	• • • • • • •	•••••	• • • • • • •	•••••	• • • • • • •	• • • • • •
IN	1	Œ	GE	Œ	GE	GE	GE	GE .	GE	GE MITTES	GE	GE	GE	GE	GE	GE	GE
FRET		7	6	5 5	4	3	2 1/2	2		1 1/4		3/4	5/8	1/2	3/8	1/4	0
FRET	ı	,	0	9	•	3	2 1/2	4	1 1/2	1 1/4	_	3/4	3/6	1/2	3/0	1/4	U
••••	••••	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	•••••		•••••	• • • • • • •	• • • • • •
NO CE		73.5	73.5	73.6	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
MU CE.	"	13.3	73.3	73.0	73.3	13.3	13.9	73.9	73.5	13.3	73.9	13.3	13.3	13.9	13.5	13.3	13.3
GE 20	~~.l	80.9	80.9	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 18		82.5	82.5	82.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 16	- 1	83.0	83.0	83.1	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE 140		84.3	84.3	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 120		85.7	85.7	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GB 12	اس	65.7	63.7	03.0	00.0	80.0	86.0	80.0	80.0	86.0	00.0	88.0	00.0	00.0	00.0	80.0	00.0
GE 10	امما	89.9	89.9	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
	000	90.6	90.6	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
-	000	91.4	91.4	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
	000	92.0	92.0	92.1	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
	000	92.6	92.6	92.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
<b>GE</b> 0	اس	72.0	92.0	32.1	93.1	73.1	33.1	93.1	93.1	33.1	93.1	93.1	93.1	93.1	33.1	93.1	33.1
GB 56	000	94.3	94.5	94.7	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
	500	94.3	94.5	94.7	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
	000	95.6	95.7	96.0	96.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
	500	95.8	96.0	96.2	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
	000	96.6	96.8	97.0	97.6	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
WB 31	اس	30.0	30.0	37.0	37.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
GE 25	500	96.8	96.9	97.1	97.9	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
	000	97.0	97.1	97.5	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
	800	97.1	97.2	97.6	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
	500	97.3	97.5	97.8	98.6	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
	200	97.3	97.5	97.8	98.6	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
	[		3.45	3	30.0	,,,,	33.6	22.5		,,,,		22.0				22.0	2212
GR 1	000	97.3	97.5	97.8	98.7	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	900	97.3	97.5	97.8	98.7	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE I	800	97.3	97.5	97.8	98.7	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	700	97.3	97.5	97.8	98.7	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	500	97.3	97.5	97.8	98.7	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	[		• • • •														
GE !	500	97.3	97.5	97.8	98.7	99.3	99.4	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	400	97.3	97.5	97.8	98.7	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	300	97.3	97.5	97.8	98.7	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	200	97.3	97.5	97.8	98.7	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	100	97.3	97.5	97.8	98.7	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
- '												· -					
GE (	000	97.3	97.5	97.8	98.7	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NO

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 MONTH: DEC HOURS: 15-17 LST TO UTC: + 7 CRILING VISIBILITY IN STATUTE MILES IN Œ GR GR GE GE GE GE GE GE GR GE GE GR GE GR GE 1 1/2 1 1/4 1 3 PERT 7 6 5 4 2 1/2 2 3/4 5/8 1/2 3/8 1/4 0 MO CEIL 72.8 72.8 72.9 72.9 72.9 72.9 72.9 72.9 72.9 72.9 72.9 72.9 72.9 72.9 72.9 GR 20000 78.7 78.7 78.8 78.8 7R . R 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.8 78.R GE 18000 80.0 80.0 80.0 80.0 79.9 79.9 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 GR 16000 80.9 80.9 80.9 80.9 80.9 80.9 80.8 80.8 80.9 80.9 80.9 80.9 80.9 80.9 80.9 80.9 GR 14000 82.8 82.8 83.0 83.0 83.0 83.0 83.0 83.0 83.0 0.58 83.0 83.0 83.0 83.0 83.0 83.0 CE 12000 86.4 86.4 86.6 86.6 86.6 86.6 86.6 86.6 86.6 86.6 86.6 86.6 86.6 86.6 86.6 86.6 89.9 GE 10000 89.9 89.9 89.9 89.9 89.9 89.9 89.8 89.8 89.9 89.9 89.9 89.9 89.9 89.9 89.9 9000 90.5 90.5 90.5 90.5 90.5 90.5 90.5 90.5 90.5 90.5 90.5 90.5 Œ 90.3 90.3 90.5 90.5 CR 8000 91.7 91.7 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8 Œ 7000 92.3 92.3 92.5 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6 GR 6000 93.7 93.7 94.0 94.1 94.2 94.2 94.2 94.2 94.2 94.2 94.2 94.2 94.2 94.2 94.2 94.2 95.3 95.3 95.3 CE 5000 94.5 94.5 94.8 95.3 95.3 95.3 95.3 95.3 95.3 95.3 95.3 95.3 94.9 CR 4500 94.6 94.6 94.9 95.0 95.4 95.4 95.4 95.4 95.4 95.4 95.4 95.4 95.4 95.4 95.4 95.4 97.0 97.0 97.0 97.0 Œ 4000 96.1 96.1 96.5 96.6 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0 3500 97.4 97.4 97.4 97.4 97.4 97.4 97.4 97.4 Œ 96.5 96.5 96.9 97.0 97.4 97.4 97.4 97.4 3000 97.7 98.1 98.3 98.8 98.8 98.8 98.8 98.8 98.8 98.8 98.8 98.8 97.7 98.8 98.8 98.8 Œ 2500 97.9 97.9 98.3 98.5 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 CT. 2000 97.9 97.9 98.3 98.5 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 1800 98.3 99.1 99.1 99.1 99.1 99.1 CR 97.9 97.9 98.5 99.1 99.1 99.1 99.1 99.1 99.1 99.1 1500 98.0 98.0 98.4 98.7 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2 Œ 99.2 QH. 98.4 99.2 99.2 99.2 1200 98.0 98.0 98.7 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.3 Œ 1000 98.1 98.1 98.5 98.8 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 900 98.5 99.3 99.3 99.3 99.3 99.3 Œ 98.1 98.1 98.8 99.3 99.3 99.3 99.3 99.3 99.3 Œ 800 98.1 QR 1 98.5 98.8 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 Œ 700 98.1 98.1 98.5 98.8 99.3 99.3 99.3 99.3 99.3 CIR. 600 98.1 98.1 98.5 98.8 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 Œ 98.1 98.1 98.5 98.8 99.3 99.7 99.7 99.7 99.7 99.7 99.7 99.7 500 99.7 99.7 99.7 99.7 CR 400 98.1 98.1 98.5 98.8 99.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 GR 300 98.1 98.1 98.5 98.8 99.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 200 98.1 98.1 98.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Œ 98.8 99.5 100.0 100.0 **CR** 100 98.1 98.1 98.5 98.8 99.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 745

000 98.1

CR

98.1 98.5 98.8 99.5 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: DEC HOURS: 18-20

				LST	TO UTC	: + 7					MONTH:	DRG	HOURS:	18-20			
CEI	LING	•••••	• • • • • •	• • • • • • •	· · · · · · ·	•••••	VISIBIL	ITY IN	STATUTE	MILES					• • • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •
1	N	Œ	GE	GE	GE	Œ	GE	GE	GE	GE	GE	GE	GE	GE	GE	G₽	GE
PE	BT	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
• • •				• • • • • •	• • • • • • •		• • • • • • •		• • • • • • •						• • • • • •	• • • • • •	• • • • • •
		74.0	24.0							74.0							
MO	CRIL	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE	20000	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
GB	18000	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE	16000	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE	14000	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
GE	12000	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
	- 1																
GB	10000	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GB	9000	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
GE	8000	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GB	7000	93.6	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE	6000	95.1	95.1	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GR	5000	95.3	95.3	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE	4500	96.0	96.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE	4000	98.0	98.0	98.5	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	90.0	98.8	98.8
GB	3500	98.3	98.3	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE	3000	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	2500						100 0		100.0	100.0		100.0		100.0	100.0		
GE	2500 2000	99.3 99.3	99.3 99.3	99.8 99.8	99.8 99.8	100.0	100.0	100.0	100.0 100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1800	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	
GE	1500	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	1200	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
G.B.	1200	77.3	33.3	33.0	33.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	1000	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	900	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	800	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	700	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	600	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	500	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	400	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	300	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	200	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	100	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Į																
GE	000	99.3	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
• • •				• • • • • •	<i></i> .			<i></i> .									• • • • •

OPERATING LOCATION "A" USAPETAC, ASHEVILLE NC

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: DEC HOURS: 21-23

				20.1	10 010	• • •					restru.	DBC		41-63			
		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••					• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •
CEII									STATUTE								
I		GE	GB	GE	Œ	GE	GE.	GE	GB	GE	GE	GE	GE	GE	GB	GE	GE
PRI	T	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
				• • • • • •	• • • • • •							· · · · · ·		• • • • • •			• • • • • •
		1															
NO 0	EIL	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
		<b>.</b>															
GR 2	20000	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
	8000	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
	6000	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
	4000	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
		l .					-										
GE .	12000	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
	10000	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE	9000	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2
Œ	8000	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE	7000	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
CE	6000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
		l															
Œ	5000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE	4500	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
Œ	4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
-	3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE	2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		100.0	100.0				100.0						100.0				
Œ				100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		1															
CE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GB	800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
CE	700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Œ	600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		l															
GE	500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		•	_														
GE	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		۱															
GE	000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: DEC HOURS: ALL

				пот	10 010						LICAN LEE	יטפט טפט	140 · 411	<b>.</b>			
CEI	LING	• • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	VISIBILI	· · · · · · · · · · · · · · · · · · ·	TATIFIE	MTT.RS	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • •
	N I	GE	GE	Œ	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	ET	7	6	5	4	3	2 1/2	2	1 1/2		1	3/4	5/8	1/2	3/8	1/4	0
FE	ret	'	0	9	•	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	U
•••			•••••	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •
MO	CEIL	74.4	74.4	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.9	74.9
	20000	80.3	80.3	80.5	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
	18000	81.2	81.2	81.4	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE	16000	81.5	81.5	81.7	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE	14000	83.2	83.2	83.4	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
CE	12000	85.5	85.5	85.7	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE	10000	89.3	89.3	89.5	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GB	9000	90.0	90.0	90.2	90.3	90.5	90.5	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE	8000	91.1	91.2	91.3	91.5	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE	7000	91.8	91.8	92.0	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.5	92.5
GE	6000	92.7	92.7	92.9	93.1	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.5	93.5
										35			2011	,,,,		,,,,	
GE	5000	94.1	94.1	94.4	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE	4500	94.2	94.2	94.5	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE	4000	95.9	96.0	96.3	96.5	97.1	97.2	97.2	97.2	97.2		97.3	97.3			97.3	
_	3500	96.1			96.7			97.4			97.3			97.3	97.3		97.3
GE			96.2	96.5		97.4	97.4		97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GB	3000	96.8	97.0	97.3	97.5	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.5	98.5
	2522																
GB	2500	97.0	97.2	97.5	97.8	98.5	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE	2000	97.1	97.3	97.7	98.1	98.9	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE	1800	97.2	97.3	97.8	98.1	98.9	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GB	1500	97.2	97.4	97.8	98.2	99.0	99.1	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE	1200	97.3	97.4	97.9	98.2	99.1	99.1	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.5	99.5
GE	1000	97.3	97.5	97.9	98.3	99.2	99.3	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
CE	900	97.3	97.5	97.9	98.3	99.2	99.3	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE	800	97.3	97.5	97.9	98.3	99.2	99.3	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.7
GB	700	97.3	97.5	97.9	98.3	99.2	99.3	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.7
GB	600	97.3	97.5	97.9	98.3	99.2	99.3	99.4	99.5	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE	500	97.3	97.5	97.9	98.3	99.2	99.4	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9
GE	400	97.3	97.5	97.9	98.3	99.2	99.5	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	300	97.3	97.5	97.9	98.3	99.2	99.5	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	200	97.3	97.5	97.9	98.3	99.2	99.5	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	100	97.3	97.5	97.9	98.3	99.2	99.5	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
45	100	37.3	37.3	31.3	30.3	77.4	33.3	33.1	37.1	33.0	33.3	77.7	77.7	33.3	33.3	100.0	100.0
GE	000	97.3	97.5	97.9	98.3	99.2	99.5	99.7	99.7	99.8	99.9	99.9	99.9	99.9	00.0	100.0	100.0
45	500	71.3	71.7	71.7	70.3	77.4	77.7	33.1	77.1	33.0	33.3	77.7	33.3	33.3	99.9	100.0	100.0
									. <i>.</i>						<i>.</i>		

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: ALL HOURS: ALL

														_			
CRILI	mg	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	VISIBILI	ייי און עידי		MTT.RS		• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	•••••	• • • • • •
IN		GE	GE	GE	GB.	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
FEET	. 1	7	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	3/8	1/4	0
1.001	. ,	•	•	3	•	3	2 1/2	-	1 1/2	1 1/4	+	3/4	3/6	1,2	3/6	1/4	v
••••	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • •
				00.3	00.3	00.3	00.3	00.3		00.3	00.3	00.3	00.3	00.3	00.3	00.3	00.3
NO CI	27.P	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
													07.0	07.0			
GE 20		87.0	87.0	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GR 18		87.5	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GB 16		87.7	87.7	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
GE 14		88.9	88.9	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 12	2000	92.3	92.3	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.6	92.6
	2000	94.3	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
	9000	94.6	94.6	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9
	3000	95.5	95.5	95.6	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
	7000	95.9	95.9	96.0	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 6	5000	97.0	97.0	97.2	97.2	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
	ł																
	5000	97.8	97.9	98.1	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4	98.4
	1500	97.9	98.0	98.1	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	1000	98.5	98.5	98.7	98.8	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 3	3500	98.6	98.7	98.8	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 3	3000	98.9	99.0	99.2	99.2	99.4	99.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	1																
GE 2	2500	98.9	99.0	99.2	99.3	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 2	2000	99.0	99.1	99.3	99.4	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1	1800 [	99.0	99.1	99.3	99.4	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1	1500	99.0	99.1	99.3	99.4	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
CE 1	1200	99.0	99.1	99.4	99.4	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
	į																
GE 1	1000	99.1	99.2	99.4	99.5	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE	900	99.1	99.2	99.4	99.5	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
CE	800	99.1	99.2	99.4	99.5	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Œ	700	99.1	99.2	99.4	99.5	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Œ	600	99.1	99.2	99.4	99.5	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Œ	500	99.1	99.2	99.4	99.5	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
Œ	400	99.1	99.2	99.4	99.5	99.7	99.8	99.8	99.3	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	300	99.1	99.2	99.4	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE	200	99.1	99.2	99.4	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
CZE.	100	99.1	99.2	99.4	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
								22.0	22.2		22.2						2
CIR	000	99.1	99.2	99.4	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
	1						,,,,	,,,,	22.2	33.5	32.3						

USAFETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JAN HOURS:ALL .....

••••••	AIRWAY CLASSES HOURS CLEAR SCATTERED BROKEN OVERCAST TOTAL GT PARTIAL TOTAL													
Hours (LST)	CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS						
00-02		• • • • • • • • • • • • •	********	•	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • •	0						
03-05	48.3	23.4	16.0	11.6	.7	28.3	1.0	406						
06-08	33.5	33.8	21.4	10.7	.6	32.7	1.7	719						
09-11	24.4	38.2	27.3	9.3	.9	37.4	2.7	895						
12-14	19.3	43.5	25.0	11.9	.2	37.2	1.8	896						
15-17	17.7	43.1	25.0	14.2		39.2	1.3	781						
18-20	23.8	40.1	23.2	12.9		36.1	1.3	521						
21-23	29.7	27.0	24.3	18.9		43.2		37						
ALL HOURS	25.9	38.2	23.8	11.7	.4	35.9	1.7	4255						

MONTH: FEB HOURS: ALL

					• • • • • • • • •			
00-02								0
03-05	43.1	29.0	13.6	14.4		27.9	.8	383
06-08	24.1	38.9	22.3	14.8		37.1	.6	669
09-11	16.1	40.9	27.9	14.9	.2	43.0	.7	828
12-14	13.2	42.1	29.5	15.2		44.7	.4	828
15-17	13.1	37.7	31.6	17.6		49.2	.7	740
18-20	18.6	34.8	30.9	15.7		45.6	.4	515
21-23	27.1	32.9	34.1	5.9		40.0		85
ALL HOURS	19.4	38.2	27.1	15.3	.0	42.5	.6	4048
• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • •		• • • • • • • • • • • •	• • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •

OPERATING LOCATION "A" USAPETAC, ASHEVILLE NC

## PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFE/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91 MONTH: MAR HOURS:ALL

LST TO UTC: + 7

••••••		••••••	• • • • • • • • •	AIRWAY CL	Asses	• • • • • • •		********
Bours - (LST)	CLEAR-	SCATTERED	BROKEN -	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02	•••••	••••••	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • •	• • • • • • • • • • • • • • • • • • • •	0
03-05	46.3	23.3	15.7	14.8		30.4		447
06-08	27.0	39.0	19.6	14.4		34.0		779
09-11	22.2	41.2	21.3	15.3		36.6	.2	927
12-14	15.8	41.7	26.0	16.5		42.5	.5	929
15-17	14.6	41.7	26.5	17.3		43.8	.6	845
18-20	21.3	42.9	22.7	13.1		35.9	.3	616
21-23	36.4	36.4	19.4	7.8		27.1		129
ALL BOURS	22.9	39.4	22.5	15.2		37.7	.3	4672

MONTH: APR HOURS: ALL

00-02					•	•••••	0
03-05	46.7	34.2	14.0	5.1	19.1		430
06-08	23.3	47.2	21.0	8.6	29.6		744
09-11	22.2	47.7	22.4	7.7	30.1	.1	900
12-14	15.7	53.1	21.3	9.9	31.2	.3	900
15-17	11.8	51.2	26.5	10.4	36.9	.9	804
18-20	18.0	47.4	27.4	7.1	34.5	.7	588
21-23	36.8	35.3	26.3	1.5	27.8		133
ALL HOURS	21.4	47.6	22.6	8.3	30.9	.3	4499

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAY HOURS:ALL .....

				AIRWAY CL	ASSES			
HOURS (LST)	CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02		• • • • • • • • • • • •		• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			0
03-05	47.4	39.1	9.2	4.3		13.5		422
06-08	34.2	45.2	16.5	4.1		20.6		732
09-11	29.2	50.4	16.8	3.6		20.5		909
12-14	23.0	57.2	14.5	5.3		19.8		908
15-17	20.€	54.7	19.2	5.4		24.7	.9	790
18-20	27.6	43.7	23.5	5.2		28.8	.2	591
21-23	44.€	31.1	20.3	4.1		24.3		148
ALL BOURS	29.7		17.0	4.6		21.7	.2	4500

MONTH: JUN HOURS: ALL

all Bours	36.4	47.5	13.3	2.9	16.1	.1	4566
21-23	50.	29.6	16.0	4.1	20.1	.6	169
18-20	35.	42.9	17.9	3.8	21.7	.5	627
15-17	27.3	57.3	12.8	2.1	14.9		798
12-14	29	55.8	12.7	2.4	15.1		900
09-11	39.6	44.6	12.7	3.2	15.9		900
06-08	39 ?	44.5	13.0	3.3	16.3		737
03-05	51.5	37.5	9.2	1.8	11.0		435
00-02							0

USAFETAC, ASHEVILLE NC

### OPERATING LOCATION "A" PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JUL HOURS:ALL

•••••		• • • • • • • • • • • • • • • • • • • •	•••••	AIRWAY CLJ		• • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••
HOURS (LST)	CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02		• • • • • • • • • • • •	*******	• • • • • • • • • • • •	••••••	• • • • • •	• • • • • • • • • • • • • • • • • • • •	0
03-05	17.1	43.9	30.3	8.7		39.0	.2	426
06-98	8.9	51.9	33.7	5.5		39.1	.1	728
09-11	10.9	57.1	28.1	3.9		32.0	.3	906
12-14	4.3	71.3	21.1	3.3		24.4	.1	908
15-17	3.2	74.7	19.7	2.5		22.1	.5	814
18-20	3.8	54.5	34.7	6.9		41.6	1.8	651
21-23	11.0	45.7	29.9	13.4		43.3	.6	164
ALL HOURS	7.5	60.2	27.3	5.0		32.3	.5	4597

MONTH: AUG HOURS: ALL

00-02	• • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	••••••	0
03-05	27.0	42.8	23.3	7.0		30.2		460
06-08	5.8	59.3	29.2	5.7		34.9	.1	771
09-11	6.0	63.4	26.0	4.5		30.5	.3	930
12-14	1.8	74.6	20.5	3.0		23.5	.1	930
15-17	1.2	75.6	21.8	1.4		23.2	.7	839
18-20	3.2	59.2	31.2	6.2	.2	37.6	1.2	657
21-23	10.1	52.2	26.4	11.3		37.7	1.3	159
ALL BOURS	6.1	64.1	25.2	4.6	.0	29.8	.4	4746

USAPETAC, ASHEVILLE NC

### OPERATING LOCATION "A" PERCENTAGE PREQUENCY OF OCCURRENCE OF SKY COVER FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: SEP HOURS:ALL

AIRWAY CLASSES									
BOURS (LST)	CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS	
00-02		• • • • • • • • • • •	••••••	• • • • • • • • • • •		• • • • • •	• • • • • • • • • • • • • • • • • • • •	0	
03-05	49.3	30.5	15.0	5.2		20.2		420	
06-08	16.8	59.5	19.8	3.9		23.7	.3	716	
0 <del>9</del> -11	15.9	60.8	19.6	3.8		23.3	.3	879	
12-14	9.0	67.8	20.0	3.2		23.2		879	
15-17	8.7	68.6	18.3	4.5		22.7	.3	783	
18-20	18.1	54.2	21.4	6.3		27.6	.3	590	
21-23	35.7	45.5	14.0	4.9		18.9		143	
ALL BOURS	17.5	59.1	19.1	4.3	• • • • • • • • • • • • • • • • • • • •	23.4	.2	4410	

MONTH: OCT HOURS: ALL

00-02	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •			• • • • • • • • •	0
03-05	52.3	29.8	12.2	5.6	17.8		426
06-08	30.0	45.0	21.3	3.8	25.0	.1	743
09-11	28.7	45.3	20.6	5.4	26.0	.2	909
12-14	19.4	54.7	20.4	5.6	26.0	.2	909
15-17	17.9	54.2	22.1	5.8	27.9	.1	810
18-20	31.4	41.0	21.9	5.7	27.6		566
21-23	41.0	34.9	19.3	4.8	24.1		83
ALL BOURS	27.9	46.6	20.3	5.3	25.6	.1	4446

PERATING LOCATION "A" SAPETAC, ASHEVILLE NC

## PERCENTAGE PREQUENCY OF OCCURRENCE OF SKY COVER FROM HOURLY OBSERVATIONS

TATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: NOV HOURS:ALL

AIRWAY CLASSES									
HOURS (LST)	CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS	
00-02	}	• • • • • • • • • • • •	•••••	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	0	
03-05	54.7	27.9	9.5	7.9		17.4		391	
06-08	32.3	45.5	14.5	7.6	.1	22.2		688	
09-11	25.3	45.4	19.9	9.3	.1	29.3		850	
12-14	24.4	43.4	25.:	6.9		32.2	.1	855	
15-17	24.6	41.7	25.8	7.9		33.7	.1	756	
18-20	37.3	38.1	16.6	8.1		24.7	.2	507	
21-23	40.9	31.8	20.5	6.8		27.3		44	
ALL HOURS	30.6	41.6	19.8	7.9	.0	27.8	.1	4091	

MONTH: DEC HOURS: ALL

HOURS	25.8	38.3	24.1	11.9	.0	36.0	.9	3905
ALL								
21-23	54.8	28.6	7.1	9.5		16.7		42
18-20	34.6	33.3	20.2	11.9		32.1		405
15-17	17.3	41.7	28.1	12.9		40.9	1.9	745
12-14	17.7	42.0	28.0	12.4		40.3	1.2	865
09-11	21.3	40.4	26.5	11.8		38.3	.9	864
06-08	31.8	37.7	19.5	11.1		30.5	.6	658
03-05	51.5	23.3	14.4	10.4	.3	25.2		326
00-02								0

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

### PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91 MONTH: ALL HOURS: ALL

LST TO UTC: + 7

•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		AIRWAY CL		• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
HOURS (LST)	CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02		• • • • • • • • • • • •		• • • • • • • • • •	•	• • • • • • •	• • • • • • • • • • • • • •	0
03-05	44.3	32.4	15.3	8.0	.1	23.4	.2	4972
06-08	25.4	45.8	21.0	7.7	.1	28.8	.3	8684
09-11	21.8	48.0	22.4	7.7	.1	30.1	.5	10697
12-14	16.0	54.1	21.9	7.9	.0	29.9	.4	10707
15-17	14.8	53.8	23.0	8.4		31.5	.7	9505
18-20	22.0	45.1	24.6	8.3	.0	32.9	.6	6834
21-23	33.0	37.9	22.0	7.1		29.1	.3	1336
ALL BOURS	22.4	47.8	21.8	8.0	.0	29.8	.4	52735

PPPPP	PPP	AAA	AAA	RRRR	RRRR	<u> </u>	ERERERERE
PPPPP	PPPP	AAAA	AAAA	RRRR	RRRRR	TITITITIT	ERREREEEE
PP	PP	AA	AA	RR	RR	TT	EE
PP	PP	λλ	λλ	RR	RR	TT	EE
PPPPP	PPPP	λλ	AA	RRRR	RRRRR	TT	REEEER
PPPPP	PPP	AAAAA	AAAAA	RRRR	RRRR	TT	ereee
PP		AAAAA	XXXXX	RR	RR	TT	KE
PP		λλ	λλ	RR	RR	TT	EE
PP		AA	AA	RR	RR	TT	BREEERERE
PP		AA	AA	RR	RR	TT	REBEREERER

#### PART E

#### TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

TEMPERATURE -- CUMULATIVE PERCENT OCCURRENCE FREQUENCY (POF).

THESE TABLES ARE CREATED FROM SUMMARY OF DAY DATA AND GIVE CUMULATIVE
POF FOR MAXIMUM, MINIMUM, AND MEAN TEMPERATURES, RESPECTIVELY. DATA IS
SUMMARIZED BY MONTH FOR ALL YEARS COMBINED. TOTALS ARE GIVEN FOR THE WHOLE
YEAR. DATA IS DISPLAYED USING 5-DEGREE FAHRENHEIT INCREMENTS (GE 0, GE 5,
GE 10, ETC).. THERE IS ONE SPECIAL THRESHOLD FOR "GE 33" DEGREES. MEANS,
STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS ARE GIVEN.

NOTE 1. BEGINNING IN JANUARY 1946, DAILY MAXIMUM AND MINIMUM TEMPERATURES
CAME ROUTINELY FROM HOURLY OBSERVATIONS ON AWS FORMS 10/10A OR FROM AUTOMATED
DATA COLLECTION FROM ALL USAF-OPERATED STATIONS. REFER TO THE "STATION HISTORY"
PAGE FOR DETAILED INFORMATION ON REPORTING PRACTICES.

#### MONTHLY TEMPERATURES.

ALSO FROM SUMMARY OF DAY DATA, THE TABLES GIVE MONTHLY MAXIMUM AND MINIMUM TEMPERATURES BY MONTH AND BY YEAR. MONTHLY RECORD TEMPERATURES (MAX AND MIN) ARE GIVEN,
ALONG WITH TOTAL OBSERVATIONS. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR
WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S)
WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

### MEAN MONTHLY TEMPERATURE.

ALSO FROM SUMMARY OF DAY DATA, GIVES MONTHLY MEAN TEMPERATURE BY MONTH, FOR ALL MONTHS, AND FOR ALL YEARS. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

DRY BULB, WET BULB, AND DEW POINT TEMPERATURES.

THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS -- DATA IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTE (ALL YEARS AND ALL BOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS ARE GIVEN.
THE MEAN NUMBER OF BOURS WITH TEMPERATURES FOR VARIOUS THRESHOLDS ALSO
APPEAR AS SPECIFIED IN EACH SUMMARY AND IN ACCORDANCE WITH AFM 88-29,
"ENGINEERING WEATHER DATA," AND AWSP 105-56, "METEOROLOGICAL TECHNIQUES."

NOTE 1. WINTER WET BULB AND DEW POINT MEAN TEMPERATURES FOR VERY COLD STATIONS MUST BE USED WITH CAUTION. WHEN THE DRY BULB TEMPERATURE IS BELOW -35 DEGREES F, DEW POINT TEMPERATURES ARE NOT REPORTED (FMH-1B). AS A RESULT, WINTER MEAN DEW POINTS (AND MORE FREQUENTLY, WINTER MEAN WET BULB TEMPERATURES) ARE ACTUALLY LOWER THAN SHOWN IN THE TABLES. IN SOME HOUR GROUPS, IN FACT, MEAN WET BULB TEMPERATURES MAY ACTUALLY BE SHOWN AS EXCREDING THE MEAN DRY BULB TEMPERATURES.

SPECIAL CAVEAT: DURING PART TIME PERIODS, THESE SUMMARIES REPRESENT THE "HIGH" AND "LOW"
TEMPERATURES RECORDED AND NOT NECESSARILY THE ACTUAL MAXIMUM AND MINIMUM VALUES. THESE SUMMARIES
ARE INFLUENCED BY THE ABSENCE OF NIGHTIME TEMPERATURE READINGS. THEREFORE, CERTAIN SUMMARIES
MAY DEPICT A SLIGHT "WARM" BIAS.

TEMPERATURE CONVERSIONS:

F = 1.8C + 32

C = K - 273.0 (BEFORE 5 APRIL 77) C = K - 273.2 (SINCE 5 APRIL 77)

RELATIVE HUMIDITY--CUMULATIVE PERCENT OCCURRENCE F. F. MANCY (POF).

CREATED FROM HOURLY OBSERVATIONS, THESE TABLES G 'E POF OF RELATIVE
HUMIDITY FOR 10% INCREMENTS. MEANS AND TOTAL OBSERVATION COUNTS ARE ALSO PROVIDED.
THE DATA IS SUMMARIZED AS POLLOWS:

- BY BIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

USAFETAC, ASHEVILLE NC

### OPERATING LOCATION 'A' CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MAXIMUM TEMPERATURES IN FAHRENHEIT FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 4203-9103 LST TO UTC: +07 MONTH: ALL HOURS: ALL

DE	P G-F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
• • •		• • • • • • • • • • • • • • • • • • •							• • • • • • •	• • • • • • •		• • • • • • • •	- <b></b> -	
3 3	120 115						.1							.0
3	110					.1	.3	.1	-	•				.0
	105					1.6	4.8 22.4	4.6 31.6	.7 14.9	.9 7.3				.9 6.6
3	100				.1	9.7	53.9	70.3	55.2	30.4	1.9			18.8
3	95				5.5	32.4	80.6	92.4	86.6	63.5	14.1			31.8
3	90		.1	1.0	18.9	60.5	94.0	98.0	96.6	85.2	34.7	.8		41.5
3	85		.9	7.4	40.8	79.6	99.2	99.7	99.2	94.7	59.7	6.3		49.7
3	80	1.2	7.5	22.2	63.5	89.7	99.9	100.0	99.7	97.9	78.2	24.5	1.8	57.9
3	75	6.9	22.3	43.1	77.8	96.0	99.9	100.0	99.9	99.6	89.5	46.7	10.1	66.6
3	70	23.3	43.2	62.5	88.0	99.1	100.0		100.0	100.0	96.1	68.0	28.5	76.2
3	65	45.2	66.8	79.2	95.4	99.9			100.0	20010	98.5	84.6	54.5	85.6
3	60	71.0	84.0	92.6	99.0	100.0					99.6	94.4	77.8	93.3
3	55	88.6	95.0	98.2	99.8						99.8	98.9	91.0	97.6
3	50	96.5	98.8	99.9	100.0						100.0	99.7	96.5	99.3
3	45	99.3	99.8	100.0								99.9	99.3	99.9
3	40	99.9	100.0									100.0	100.0	100.0
:	35	100.0												100.0
AN	••••	63.6 7.50	67.9 8.03	72.3 8.57	81.4 8.90	90.4	99.7 6.15	101.8	99.6 4.91	96.0 6.48	85.6 8.33	73.2 8.11	64.9 7.65	83.3 15.64
•••	•••••												• • • • • • • •	
TA	LOBS	1464	1325	1472	1453	1489	1458	1485	1511	1438	1492	1421	1439	17448

OPERATING LOCATION 'A' USAPETAC, ASHEVILLE NC

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MINIMUM TEMPERATURES IN FAHRENHEIT FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 4203-9103
LST TO UTC: +07 MONTH: ALL HOURS: ALL

			L	ST TO UT	C: +07					MONT	H: ALL	HOURS:	ALL	
TEME (DEC		JAN	PEB	MAR	APR	МАЧ	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
• • •		• • • • • • • • •	• • • • • • •		<i>-</i>	• • • • • • •	• • • • • • • •	• • • • • • • •						
GE	95					,	.1	.1	.1	_				.0
GB GB	90 85					.1 .;	1.5 6.4	3.2 14.6	1.2 7.7	.6 2.6	.1			.6 2.7
GE	80				.3	2.9	16.9	52.6	35.9	11.3	.5			10.3
GE	75				.7	7.5	33.7	84.8	75.6	32.2	1.7	.1		20.1
GB	70		.1	.2	3.9	18.0	59.7	97.6	96.1	63.6	8.9	.2		29.6
GE	65		.2	1.0	10.5	38.5	84.4	99.9	99.4	87.1	28.3	.9	.1	38.1
GE	60	.1	.5	3.4	25.1	67.9	96.7	100.0	99.9	96.8	52.5	4.0	.2	46.3
GE	55	1.0	4.3	14.1	48.2	88.2	99.7		100.0	99.4	77.1	14 0	2.2	54.8
GE	50	7.0	17.1	35.1	73.2	96.4	100.0			100.0	90.7	37.1	9.2	64.5
GE	45	22.1	40.2	65.2	90.8	99.3					96.7	65.6	25.2	76.0
GE	40	48.3	69.0	86.8	98.2	99.9					99.1	84.9	53.2	86.9
GE	35	77.1	87.7	96.9	99.9	100.0					99.9	96.7	80.7	95.0
GE	33	84.0	92.3	98.6	100.0						100.0	98.4	88.3	96.9
GE	30	92.3	96.8	99.7								99.8	95.4	98.7
GR	25	90.1	99.7	119.9								99.9	<b>99.</b> 7	99.8
GB	20	99.8	100.0	1 0.0								100.0	100.0	100.0
GE	15	100.0												100.0
	••••	20.3	42.0	47.0	 E4 E		71.0						•••••	
MEAN SD		39.3 6.85	42.8 6.98	47.0 6.79	54.5 7.76	62.9 7.69	71.9	79.6	77.7	71.6	59.7	47.1	40.3	58.1
aυ		0.60	0.76	0.79	7.70	7.09	7.44	4.93	4.85	6.53	7.60	7.06	6.64	15.72
TOTAL	OBS	1448	1325	1472	1453	1489	1458	1486	1511	1438	1492	1421	1439	17432
														1,750
				_ ,		• • • • •			• • • •		<b></b>	· · · ·		

OPERATING LOCATION 'A' USAFETAC, ASHEVILLE NC

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MEAN TEMPERATURES IN FAHRENHEIT FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ

PERIOD OF RECORD: 4203-9103 MONTH: ALL HOURS: ALL

LST	TO	UTC:	+07
LST	то	UTC:	

TEM (DE	P G-F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	VOV	DEC	ANN
GB.	105			• • • • • • • •	• • • • • • •	• • • • • • •	.1	• • • • • • •	• • • • • • • •	• • • • • • • •		• • • • • • •		.0
Œ	100						1.1	1.3	.1	.1				.2
GE	95					.3	7.2	17.1	5.6	2.1				2.7
æ	90					3.2	28.5	66.0	47.3	15.8	.1			13.7
æ	85				.6	11.4	61.2	94.0	85.9	48.5	3.2			25.9
æ	80				5.6	36.2	85.9	99.5	98.1	79.5	18.7	.1		35.9
æ	75		.1	1.1	20.9	67.2	96.8	100.0	99.8	94.6	42.5	.7		44.3
E	70		.7	6.7	43.6	84.8	99.7		100.0	99.1	71.5	7.0	.1	51.9
Œ	65	.6	7.7	24.3	69.9	95.0	100.0			99.9	87.1	28.1	1.0	60.2
E	60	8.1	26.9	52.7	86.4	99.1				100.0	95.9	57.3	11.7	70.5
Œ	55	31.9	57.1	78.3	96.2	99.9					98.9	80.7	40.5	82.3
æ	50	66.4	82.6	93.7	99.5	100.0					99.6	94.9	72.7	92.6
di:	45	87.8	94.7	99.5	100.0						99.9	99.4	91.6	97.8
æ	40	97.1	99.3	99.9							100.0	99.9	98.2	99.5
E	35	99.4	99.9	100.0								100.0	99.9	99.9
E	33	99.7	100.0										100.0	100.0
8	30	100.0												100.0

					· • • • • • • •							• • • • • • • •	• • • • • • • • • • • • • • • • • • • •
MEAN	51.6	55.5	59.8	68.1	76.9	86.0	90.9	88.8	84.0	72.8	60.3	52.8	70.9
80	5.92	6.38	6.58	7.37	6.86		3.97	4.02		7.05	6.45	5.82	15.22
TOTAL OBS	1448	1325	1472	1453	1489	1458	1486	1511	1438	1492	1421	1439	17432

OPERATING LOCATION 'A' USAFETAC, ASHEVILLE NC

## MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 4203-9103
LST TO UTC: +07
MONTH: ALL HOURS: ALL

		LST	TO UTC:	+07					HIMON!	ALL H	OURS: AL	L .	
YEAR	JAN	PEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
42	• • • • • • • • • •	• • • • • • •	90	94	108	111	114	108	106	101	87	81	114*
43	76	93	92	101	104	108	112	105	107	98	87	77	112
44	80	78	82	90	99	110	108	112	105	99	87	75	112
45	79	80	85	96	99	108	110	108	111	94	86	74	111
46	77	73*		98	98	108	110	110	106	90	81	80	110*
47	76	88	88	95	108	107	113	110	111	100	90	76	113
48	80	83	82	99	101	110	112	111	110	100	82	75	112
49	69	81	82	98	104	110	110	109	107	96	91	80	110
50	80	83	89	97	100	113	112	111	113	102	86	83	113
51	84	84	84	95	110	108	112	107	104	99	80	76	112
52	73	77	81	95	102	110	110	108	108	101	87	77	110
53	84	80	90	97	99	111	113	109	107	103	92	76	113
54	81	86	86	98	101	110	112	108	109	101	89	78	112
55	74	79	87	92	103	114	112	105	108	101	87	84	114
56	84	77	93	92	107	112	110	106	105	100	89	75	112
57	70	89	85	92	99	114	113	107	105	100	79	78	114
58	76	84	81	99	109	109	116	107	105	99	85	82	116
59	78	77	84	97	100	111	111	104	105	101	83	82	111
60	75	74	90	93	106	111	109	108	106	96	87	75	111
61	78*	79*	83*	95*	98*	110*	108*	105*	97*	96*	74*	73*	110*
62	75*	77*	88*	97*	99*	109*	105*	110*	106*	95*	86*	78*	110*
63	76*	86*	83*	91*	102	103	108	103	103	99	86	75	108*
64	72	73	89	93	101	108	108	105	102	97	85	70	108
65	77	80	89	99	102	103	110	108	100	96	88	81	110
66	70	70	88	91	99	109	107	106	102	92	85	75	109
67	76	80	87	84	103	106	108	105	100	94	91	67	108
68	72	82	86	90	102	112	106	100	105	92	79	75	112
69	70	75	90	94	103	107	110	110	106	94	80	75	110
70	72	82	78	88	106	117	110	109	106	90	82	78	117
71	84	82	93	91	96	108	111	102	112	92	87	71	112
72	74	82	92	94	98	112	114	114	104	103	79	74	114
73	74	75	73	93	103	113	112	108	105	96	85	80*	113*
74	75	81	86	90	107	112	109	105	106	100	81	71*	112*
75	79	76	80	86	98	103	107	109	101	96	91	80	109

OPERATING LOCATION 'A'
USAPETAC, ASHEVILLE NC

### MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE AZ PERIOD OF RECORD: 4203-9103 LST TO UTC: +07 MONTH: ALL HOURS: ALL NOV ஶ YEAR MAR APR MAY JUN AUG DEC ANNUAL R1 QR 77\* 108\* 70\* 111\* 81\* 110\* 69\* 104\* 70\* 109\* 73\* 108\* 73\* 82\* 82\* GREATEST 

THE GREATEST VALUE OF 120 OCCURRED ON 06/28/90

TOTAL OBS 1464 1325 1472 1453

NOTE: "THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

1489 1458 1486 1511 1438 1492 1421 1439 17448

OPERATING LOCATION 'A'
USAPETAC, ASHEVILLE NC

## MONTHLY MINIMUM TEMPERATURES IN FAHRENHEIT FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE AZ PERIOD OF RECORD: 4203-9103
LST TO UTC: +07 MONTH: ALL BOURS: ALL

		LST	TO UTC:	+07					HIMOM:	ALL B	OURS: AL	L	
YEAR	JAN	FRB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL
42		• • • • • • • •	33	38	45	60	68	64	64	44	37	35	33*
43	29	32	38	43	51	59	68	72	59	45	38	34	29
44	28	32	35	42	51	55	70	72	62	53	32	31	28
45	29	33	35	37	52	56	73	72	55	44	36	29	29
46	30	28*		42	57	66	68	69	62	45	30	30	28*
47	24	33	41	45	53	64	74	70	63	49	30	29	24
48	22	24	33	41	53	59	74	71	64	46	30	25	22
49	22	27	36	38	54	59	73	67	68	36	43	27	22
50	20	36	38	42	44	54	70	68	57	52	37	32	20
51	23	30	30	40	43	58	71	65	62	42	35	28	23
52	27	30	32	48	58	63	70	71	59	52	33	30	27
53	32	24	38	35	46	57	71	67	52	42	31	26	24
54	29	34	32	47	48	56	70	68	63	42	39	23	23
55	27	24	31	35	45	53	67	69	57	46	34	34	24
56	34	28	30	41	50	64	67	63	66	38	22	25	22
57	33	32	38	41	44	59	73	67	59	50	34	33	32
58	29	36	37	40	56	63	72	75	60	49	30	33	29
59	31	35	37	50	47	60	76	73	58	43	39	32	33.
60	28	28	38	40	51	67	71	71	55	45	36	24	24
61	32*	37*	42*	42*	51*	56*	68*	68*	58*	37*	30*	31*	30*
62	23*	28*	31*	47*	48*	58*	71*	63*	66*	53*	34*	39*	23*
63	22*	34*	34*	42*	55	57	71	71	63	54	38	29	22*
64	20	26	30	37	43	58	72	67	59	50	33	28	20
65	30	28	29	40	40	55	72	66	50	46	23	33	23
66	29	27	24	40	52	58	69	71	65	43	34	23	23
67	20	30	34	41	37	58	73	73	63	44	38	28	20
68	30	35	36	35	47	54	64	59	50	44	32	21	21
69	26	29	32	46	48	62	66	74	62	44	36	29	26
70	24	30	35	36	47	61	71	74	58	37	36	32	24
71	17	29	24	45	50	54	71	71	56	34	35	28	17
72	22	24	37	42	51	68	74	73	60	39	34	27	22
73	27	33	35	38	48	61	69	68	58	42	33	29*	27*
74	25	28	35	39	43	61	68	67	65	43	35	26*	25*
75	27	27	35	34	39	62	70	67	59	35	34	31	27
	I												

OPERATING LOCATION 'A' USAFETAC, ASHEVILLE NC

### MONTHLY MINIMUM TEMPERATURES IN FAHRENHEIT FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 4203-9103 MONTH: ALL HOURS: ALL LST TO UTC: +07 APR MAY JUN JUL AUG SEP OCT NOV DEC ANNUAL YEAR MAR 35\* 29\* 24\* 24\* 35\* 32\* 29\* 29\* 37\* 33\* R4 33\* 33\* 27\* 38\* 27\* LEAST TOTAL OBS | 1448 1325 1472 1453 1489 1458 1486 1511 1438 1492 1421 1439 17432

THE LEAST VALUE OF 17 OCCURRED ON 01/07/71

NOTE: "THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A' USAFETAC, ASHEVILLE NC

### MONTHLY MEAN TEMPERATURES IN FAHRENHEIT FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB AZ PERIOD OF RECORD: 4203-9103
LST TO UTC: +07 MONTH: ALL HOURS: ALL

		LST	TO UTC:	+07					MONTH:	ALL H	OURS: AL	t.	
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL
42	•••••	• • • • • • • •	57	65	74	84	92	88	85	73	64	 56	74*
43	54	60	63	72	79	85	91	88	85	72	62	54	72
44	51	52	57	64	76	82	90	91	83	75	57	53	69
45	51	55	57	66	76	82	91	90	85	75	58	51	70
46	50	49*		74	77	88	90	88	83	67	55	54	71*
47	49	58	62	68	80	85	93	88	87	73	56	50	71
48	53	53	56	69	77	86	91	91	86	74	55	50	70
49	44	51	59	70	76	86	90	88	87	69	65	52	70
50	50	59	62	72	75	85	89	89	81	77	63	56	71
51	49	55	60	66	76	84	93	88	84	73	60	52	70
52	51	53	55	68	80	86	89	90	86	78	58	52	71
53	55	54	62	67	72	86	91	90	85	73	63	50	71
54	53	62	60	73	79	85	91	88	86	75	64	53	72
55	48	51	61	66	75	85	87	86	84	77	60	57	70
56	57	50	61	67	78	88	89	87	86	71	58	53	71
57	54	62	62	67	73	88	92	89	84	71	57	56	71
58	53	59	58	67	83	89	92	90	85	76	62	58	73
59	55	55	63	73	75	90	93	87	83	73	62	54	72
60	49	51	64	69	77	89	91	89	86	71	61	52	71
61	53*	58*	61*	70*	76*	88*	91*	86*	*08	70*	56*	51*	72*
62	50*	55*	56*	74*	74*	83*	90*	91*	85*	74*	64*	57*	71*
63	50*	59*	60*	65*	79	81	91	86	84	75	60	51	71*
64	46	48	56	64	73	83	90	86	81	76	57	52	68
65	53	53	57	66	73	79	90	88	79	74	63	53	69
66	47	49	60	69	80	86	91	89	83	71	61	51	70
67	50	56	62	62	74	82	90	89	83	73	64	48	70
68	52	59	59	66	75	86	88	85	83	71	58	47	69
69	52	53	57	69	80	85	91	93	85	68	60	52	71
70	50	58	57	63	79	88	94	91	82	68	61	52	70
71	51	54	62	66	74	85	93	87	84	68	59	49	70
72	49	56	68	69	78	89	95	90	86	69	54	48	71
73	49	54	53	65	79	87	91	91	84	72	60	55*	70*
74	52	55	62	69	78	91	89	89	85	74	59	50*	71*
75	51	52	56	59	72	83	90	88	83	70	59	52	68

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NO

### MONTHLY MEAN TEMPERATURES IN FAHRENHEIT FROM SUMMARY OF DAY DATA

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE AZ PERIOD OF RECORD: 4203-9103 LST TO UTC: +07 MONTH: ALL HOURS: ALL JUI. YEAR JAN FKB MAR APR MAY JUN AUG SEP OCT NOV DEC ANNUAL 57\* 72\* 50\* 73\* 57\* 73\* A1 53\* 70\* 56\* 71\* A3 54\* 72\* 51\* 61\* 56\* 60.3 CRASS 51.6 55.5 59.8 68.1 76.9 86.0 90.9 88.8 84.0 72.8 52.8 70.9 NOTAL OBS 1448 1325 1472 1453 1489 1458 1486 1511 1438 1492 1421 1439 17432

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

### DRY BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFE/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: JAN MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F TOTAL TOTAL HOURS MEAN STANDARD LST DEVIATION OBS LE 0 LE 32 GE 65 GE 80 GE 93 00-02 .0 .000 0 0 0 0 0 0 03-05 44.4 5.295 406 0 4 0 0 0 406 06-08 43.0 5.628 719 0 17 0 0 O 719 09-11 51.0 6.419 895 0 21 0 895 1 0 12-14 60.0 6.318 893 0 0 207 0 0 15-17 62.6 6.656 780 0 0 298 1 0 780 57.1 18-20 5.903 521 o 63 O n O 521 21-23 52.4 5.273 0 0 0 0 37 BOURS 9.549 4251 589 O 4251 22 1 MONTH: FEB .000 00-02 .0 0 O 0 O D 0 0 03-05 47.5 6.459 383 0 5 0 0 383 06-08 46.4 6.436 669 0 11 0 0 0 669 7.507 09-11 55.7 828 0 3 106 0 0 828 64.2 8.259 12-14 828 0 0 416 11 0 828 15-17 66.9 8.856 740 0 0 482 0 44 740 18-20 62.5 7.960 220 0 514 21-23 56.6 6.423 0 9 ALL HOURS 10.898 58.0 4047 19 1233 61 0 4047 0

R - 5 - 1 - 1

PERATING LOCATION "A" SAFETAC, ASHEVILLE NO

# DRY BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

TATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: MAR

DURS MEAN STANDARD TOTAL MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F TOTAL

LST DEVIATION OBS LE 0 LE 32 GE 65 GE 80 GE 93 HOURS

DESCRIPTION OF TOTAL NUMBER OF HOURS WITH TEMPERATURES DEG F TOTAL

LST DEVIATION OBS LE 0 LE 32 GE 65 GE 80 GE 93 HOURS

ours Let	MEAN	STANDARD DEVIATION	TOTAL OBS		TE 0	LE 32	GE 65	GE 80	URES DEG 1 GE 93	HOURS
0-02	.0	.000	0	•••••	0	0	0	0	0	0
3-05	31.0	5.981	447		0	0	6	0	0	447
5-06	50.9	6.211	779		0	0	12	0	0	779
9-11	61.7	7.208	927		0	0	316	4	0	927
2-14	68.7	8.055	929		0	0	620	83	0	929
5-17	71.0	8.581	845		0	0	639	151	0	845
B-20	67.2	7.909	616		0	0	404	34	0	616
L-23	61.5	6.055	129		0	0	44	0	0	129
ALL DURS	•		4672		o	0	2041	272	0	4672
							<b>-</b> -			
•••••	• • • • • • • • • •	• • • • • • • • • •		•		MONTE	: APR	••••••	• • • • • • • •	• • • • • • •
)-02	.0	.000				МОМТН: 0	: APR	0	0	
)-02 3-05	•••••	.000			•••••			0	0	• • • • • • •
	.0	.000	0		0	0	0	_	-	o
3-05	.0 59.1	.000 6.603	0 430		o	0	0 97	0	0	0 430
3-05 5-08	.0 59.1 61.1	.000 6.603 7.580	0 430 744		0 0 0	0 0 0	0 97 249	0	0	0 430 744
3-05 5-08 3-11	.0 59.1 61.1 72.6	.000 6.603 7.580 8.212	0 430 744 900		0 0 0 0	0 0 0	0 97 249 742	0 5 203	0 0 2	0 430 744 900
3-05 5-08 3-11 2-14	.0 59.1 61.1 72.6 79.0	.000 6.603 7.580 8.212 8.784	0 430 744 900 900		0 0 0 0	0 0 0 0	0 97 249 742 831	0 5 203 473	0 0 2 31	0 430 744 900 900
3-05 5-08 3-11 2-14 5-17	.0 59.1 61.1 72.6 79.0	.000 6.603 7.580 8.212 8.784 8.983	0 430 744 900 900		0 0 0 0	0 0 0 0	0 97 249 742 831 755	0 5 203 473 509	0 0 2 31 64	0 430 744 900 900

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OPERATING LOCATION "A" USAFETAC, ASHEVILLE NC

## DRY BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAY HOURS MEAN STANDARD TOTAL MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F TOTAL LST OBS DEVIATION LE 0 LE 32 GE 65 GE 80 GE 93 HOURS .0 .000 0 0 0 0 0 00~02 0 03-05 65.8 6.052 422 0 0 239 5 0 422 76 70.0 06-08 7.468 732 0 0 551 0 732 09-11 80.8 7.279 888 554 909 0 O 40 909 12-14 86.8 7.287 0 907 763 194 908 15-17 89.2 7.278 790 0 0 790 705 261 790 18-20 86.3 7.559 591 0 0 591 480 119 591 80.2 6.579 88 21-23 0 145 6 148 148 ALL BOURS | 81.0 10.763 4500 C 4111 4500 2671 620 MONTH: JUN 0 00-02 .0 .000 0 0 0 0 0 03-05 74.4 6.069 435 0 0 420 85 0 435 06-08 78.9 6.550 737 0 0 725 362 12 737 09-11 89.4 5.400 0 0 900 266 900 900 864 12-14 95.5 5.268 0 0 900 900 647 900 15-17 98.5 798 n 0 798 798 693 798 5.462 18-20 96.1 5.768 627 0 0 627 626 467 627 21-23 5.523 164 169 169 ALL BOURS 10.000 4565 4539 2139 4566

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OPERATING LOCATION "A" USAPETAC, ASHEVILLE NC

## DRY BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7

Bours Lst	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0 LE 32 GF 65 GE 80 GE 93	
00-02		.000	0	0 0 0 0	
			-		
03-05	81.0	4.790	426	0 0 426 277 3	426
06-08	83.1	4.865	728	0 0 728 566 14	728
09-11	90.7	5.036	906	0 0 906 879 338	906
12-14	96.1	5.046	908	0 0 908 903 727	908
15-17	99.0	5.323	814	0 0 814 812 728	814
18-20	96.8	5.953	651	0 0 651 647 519	651
21-23	92.5	5.087	164	0 0 164 163 86	164
ALL BOURS	92.1	8.098	4597	0 0 4597 4247 2415	4597
		. <b></b>			
*****	• • • • • • • • • • • • • • • • • • • •		••••••	MONTH: AUG	
00-02		.nno	0		
00-02	.0		0	MONTH: AUG	
	.0	-000	0	MONTH: AUG 0 0 0 0	
03-05	.0 80.2	.nnn 8.103	0 460	MONTH: AUG 0 0 0 0 0 0 0 460 266 0	0 460
03-05 06-08	.0 80.2 81.6	.bnn 4.103 4.636	0 460 771	MONTH: AUG  0 0 0 0 0  0 0 460 266 0  0 0 771 522 3	0 460 771
03-05 06-08 09-11	.0 80.2 81.6 89.7	4.103 4.636 5.134	0 460 771 930	MONTH: AUG  0 0 0 0 0  0 0 460 266 0  0 0 771 522 3  0 0 930 899 274	0 460 771 930
03-05 06-08 09-11 12-14	.0 80.2 81.6 89.7 95.2	.000 4.103 4.636 5.134 5.320	0 460 771 930 930	MONTH: AUG  0 0 0 0 0 0 0 460 266 0 0 0 771 522 3 0 0 930 899 274 0 0 930 920 703	0 460 771 930 930
03-05 06-08 09-11 12-14 15-17	.0 80.2 81.6 89.7 95.2 97.6	4.103 4.636 5.134 5.320 5.405	0 460 771 930 930 839	MONTH: AUG  0 0 0 0 0 0 0 460 266 0 0 0 771 522 3 0 0 930 899 274 0 0 930 920 703 0 0 839 831 715	0 460 771 930 930

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# DRY BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PER TOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: SEP

			. 10 010.	•		1001111				
Bours Lst	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN	NUMBER LE 0	OF HOUR		TEMPERAT GE 80	URES DEG	F TOTAL HOURS
00-02	.0	.000	0	••••••	0	0	0	0	0	0
03-05	73.0	5.773	420		0	0	385	61	0	420
06-08	74.2	6.512	716		0	0	669	155	1	716
09-11	84.6	6.704	879		0	0	877	688	89	879
12-14	90.8	6.805	879		0	0	879	809	410	879
15-17	92.8	7.160	783		0	0	783	729	473	783
18-20	88.3	7.557	590		0	0	590	509	187	590
21-23	83.2	6.136	143		0	0	143	102	7	143
ALL	05.0	0.050	4410		0	0	4326	3053	1167	4410
HOURS	85.0	9.860								
HOURS			• • • • • • • • • • • • • • • • • • • •	•••••	•••••	MONTE	: OCT	•••••	• • • • • • • • • • • • • • • • • • • •	•••••
00-02	.0		• • • • • • • • • • • • • • • • • • • •		•••••	MONTE	: OCT	•••••	0	•••••
	.0		• • • • • • • • • • • • • • • • • • • •			MONTE	: OCT			
00-02	.0	.000	0		0	MONTE	i: OCT	0	0	0
00-02	.0	.000	0		0	MONTE 0	0 183	0	o o	0 426
00-02 03-05 06-08	.0 63.0 63.2	.000 6.024 6.355	0 426 743		0 0	MONTE 0 0	0 183 342	0	0 0	0 426 743
00-02 03-05 06-08	.0 63.0 63.2 74.5	.000 6.024 6.355 6.782	0 426 743 909		0 0 0	MONTE  0  0  0  0	0 183 342 853	0 0 4 211	0 0 0	0 426 743 909
00-02 03-05 06-08 09-11 12-14	.0 63.0 63.2 74.5 81.7	.000 6.024 6.355 6.782 6.760	0 426 743 909 909		0 0 0	0 0 0 0	0 183 342 853 909	0 0 4 211 598	0 0 0 3 58	0 426 743 909 909
00-02 03-05 06-08 09-11 12-14 15-17	.0 63.0 63.2 74.5 81.7	.000 6.024 6.355 6.782 6.760 6.929	0 426 743 909 909		0 0 0 0 0 0	MONTES  0  0  0  0  0  0	0 183 342 853 909 807	0 0 4 211 598 588	0 0 0 3 58 80	0 426 743 909 909 810

# DRY BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: NOV

		LS	T TO UTC: +	7 MONTH: NOV
Hours Let	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F TOTAL LE 0 LE 32 GE 65 GE 80 GE 93 HOURS
00-02	.0	.000	0	0 0 0 0 0 0
03-05	52.0	6.676	391	0 0 14 0 0 391
06-08	51.2	6.766	688	0 0 14 0 0 688
09-11	61.8	7.582	850	0 0 315 7 0 850
12-14	69.8	7.681	855	0 0 636 86 0 855
15-17	71.8	7.771	756	0 0 614 127 0 756
18-20	64.9	7.314	507	0 0 278 6 0 507
21-23	59.7	6.162	44	0 0 9 0 0 44
ALL BOURS	63.0	10.658	4091	0 0 1880 226 0 4091
•••••				MONTH: DEC
00-02	.0	.000	0	0 0 0 0 0 0
03-05	45.3	5.839	326	0 3 0 0 0 326
06-08	44.0	6.377	658	0 21 0 0 0 658
09-11	52.1	7.148	864	0 4 33 0 0 864
12-14	60.7	7.027	865	0 0 262 3 0 865
15-17	63.1	6.914	745	0 0 335 4 0 745
18-20	57.4	6.006	405	0 0 45 0 0 405
21-23	53.0	4.698	42	0 0 2 0 0 42
ALL BOURS	54.7	9.792	3905	0 28 677 7 0 3905

E-5-1- 6

# DRY BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7

Hours Let	MRAN	STANDARD DEVIATION	TOTAL OBS	MEAN	NUMBER LE 0		WITH GE 65	TEMPERAT GE 80	URES DEG F GE 93	TOTAL HOURS
00-02	.0	.000	0	•••••••••••••••••••••••••••••••••••••••	0	0	0	0	0	0
03-05	62.1	14.136	4972		0	12	2230	694	3	4972
06-08	62.6	15.724	8684		0	49	4061	1690	30	8684
09-11	72.3	15.975	10697		0	8	6887	4309	1012	10697
12-14	79.3	15.065	10704		0	0	8405	5549	2770	10704
15-17	81.7	15.201	9504		0	0	7954	5299	3014	9504
18-20	78.7	15.985	6833		0	o	5205	3446	1776	6833
21-23	77.6	14.555	1336		0	0	1029	701	224	1336
ALL BOURS	73.8	17.096	52730		0	69	35771	21688	8829	52730

# WET BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JAN

		LS	r to utc: +	7 MONTE: JAN
Hours LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F TOTAL LE 32 GE 50 GE 67 GE 73 GE 80 HOURS
00-02	.0	.000	0	0 0 0 0 0
03-05	39.5	5.131	405	29 13 0 0 0 405
06-08	38.5	5.389	718	82 23 0 0 0 718
09-11	43.7	5.000	895	12 98 0 0 0 895
12-14	48.0	4.439	893	1 365 0 0 0 893
15-17	48.9	4.453	780	0 363 0 0 0 780
18-20	46.9	4.403	521	3 146 0 0 0 521
21-23	44.4	4.105	37	0 4 0 0 0 37
ALL HOURS	44.7	6.238	4249	127 1012 0 0 0 4249
				MONTH: FEB
00-02	.0	.000	0	0 0 0 0 0
03-05	41.2	5.996	383	29 26 0 0 0 383
06-08	40.5	6.146	669	59 48 0 0 0 669
09-11	46.2	5.534	828	14 237 0 0 0 828
12-14	49.8	5.233	828	7 470 0 0 0 828
15-17	50.6	5.248	740	3 466 0 0 0 740
18-20	49.1	5.295	514	2 256 0 0 0 514
21-23	46.5	5.219	85	0 27 0 0 0 85
ALL HOURS	46.7	6.748	4047	114 1530 0 0 0 4047

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### WET BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAR ..... MEAN STANDARD MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F TOTAL HOURS TOTAL LST DEVIATION OBS LE 32 GE 50 GE 67 GE 73 GE 80 00-02 .0 .000 0 0 0 0 0 0 57 03-05 43.2 5.382 447 12 0 0 0 447 06-08 43.4 5.435 779 23 102 0 0 0 779 09-11 49.1 4.839 927 0 463 0 0 0 927 12-14 51.7 4.647 929 0 636 0 0 0 929 15-17 52.3 4.459 845 0 621 0 0 0 845 18-20 51.0 4.611 616 O 384 O 0 n 616 21-23 48.4 4.312 129 52 0 0 129 ALL BOURS 5.987 4672 35 2315 4672 MONTH: APR 00-02 .0 .000 0 0 0 0 0 0 03-05 46.9 5.215 430 0 138 0 0 0 430 06-08 48.4 5.542 744 0 320 0 0 0 744 09-11 53.8 4.596 900 0 730 0 0 900 0 12-14 56.0 4.433 900 0 821 2 0 0 900 15-17 56.7 4.420 804 0 742 0 0 804 18-20 55.3 4.525 588 0 516 0 0 0 588 21-23 52.9 4.643 133 102 0 0 0 133 ALL HOURS 5.902 4499 3369 3 0 4499 53.4

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## WET BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7

		Ca1	r 10 oic: +	•		MUNTH:	MAI			
Hours LST	MEAN	STANDARD DEVIATION	TOTAL OBS	I	UMBER Le 32		GE 67	GE 73	RES DEG F GE 80	HOURS
00~02	-0	.000	0	•••••	0	0	0	0	0	0
03-05	50.5	4.847	422		0	232	0	o	0	422
06-08	53.1	5.027	732		0	556	2	1	0	732
09-11	57.9	4.159	909		0	891	17	3	0	909
12-14	60.0	3.937	908		0	899	40	5	0	908
15-17	60.8	3.688	790		0	789	42	2	0	790
18-20	59.5	3.693	591		0	591	12	1	0	591
21-23	56.8	3.603	148		0	146	0	0	0	148
ALL BOURS	57.5	5.442	4500		0	4104	113	12	o	4500
						MONTH:	JUN			
00-02	.0	-000	0		0	0	0	0	0	0
03-05	55.8	5.937	435		0	379	25	2	0	435
06-08	58.3	5.664	737							
09-11					0	696	63	10	0	737
	62.9	4.544	900		0	696 900	63 194	10 29	0	900
12-14	62.9 65.3	4.544 4.161								
12-14 15-17			900		0	900	194	29	0	900
	65.3	4.161	900 900		0	900 900	19 <b>4</b> 359	29 55	0	900 900
15-17	65.3 66.3	4.161 3.983	900 900 798		0 0	900 900 798	194 359 393	29 55 52	0 0	900 900 798

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## WET BULB TEMPERATURE SUMMARY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7

		Dig.	10 010:	* *		MONTE	: 100			
HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN	NUMBER LE 32		S WITH	TEMPERAT	URES DEG GE 80	HOURS
00-02	.0	.000	0	•	0	0	0	0	0	0
03-05	66.6	5.553	426		0	422	276	24	1	426
06-08	67.6	4.928	728		0	725	520	80	0	728
09-11	69.8	3.942	906		0	906	743	238	0	906
12-14	71.2	3.527	908		0	908	809	337	3	908
15-17	71.8	2.996	814		0	814	761	357	0	814
18-20	71.1	3.093	651		0	651	603	223	0	651
21-23	70.0	3.412	164		0	164	142	41	0	164
ALL HOURS	70.0	4.293	4597		0	4590	3854	1300	4	4597
			• • • • • • • • •							
•••••		•••••	•••••		•••••	MONTH	 : AUG	• • • • • • •	•••••	•••••
00-02	 	.000				MONTE				
00-02	.0	.000	0		0	0	0	0	0	0
03-05	68.0	4.367	460		0	0 460	0 359	46	0	460
03-05 06-08	68.0 68.7	4.367 4.126	_	•••••••••••••••••••••••••••••••••••••••	0	0 460 771	359 626	<b>46</b> 96	0	460 771
03-05 06-08 09-11	68.0 68.7 71.1	4.367 4.126 3.261	460 771	•••••••••••••••••••••••••••••••••••••••	0 0	0 460 771 930	359 626 840	46 96 303	0	460 771 930
03-05 06-08 09-11 12-14	68.0 68.7 71.1 72.1	4.367 4.126 3.261 2.967	460 771 930 930	•••••••••••••••••••••••••••••••••••••••	0 0 0	0 460 771 930 930	0 359 626 840 869	46 96 303 470	0 0 0	460 771 930 930
03-05 06-08 09-11 12-14 15-17	68.0 68.7 71.1 72.1 72.3	4.367 4.126 3.261 2.967 3.058	460 771 930 930 839		0 0 0 0	0 460 771 930 930 839	0 359 626 840 869 795	46 96 303 470 440	0 0 0 4 7	460 771 930 930 839
03-05 06-08 09-11 12-14 15-17 18-20	68.0 68.7 71.1 72.1 72.3 71.3	4.367 4.126 3.261 2.967 3.058 2.951	460 771 930 930 839 657	•••••••••••••••••••••••••••••••••••••••	0 0 0 0 0	0 460 771 930 930 839 657	0 359 626 840 869 795 608	46 96 303 470 440 240	0 0 0 4 7 2	460 771 930 930 839 657
03-05 06-08 09-11 12-14 15-17	68.0 68.7 71.1 72.1 72.3	4.367 4.126 3.261 2.967 3.058	460 771 930 930 839		0 0 0 0	0 460 771 930 930 839	0 359 626 840 869 795	46 96 303 470 440	0 0 0 4 7	460 771 930 930 839

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#### WET BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: SEP

BOURS	MEAN	STANDARD	TOTAL	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F TO	TAL
LST	, rabras	DEVIATION	OBS		URS
	• • • • • • • • • •				
00-02	.0	.000	0	0 0 0 0	0
03-05	61.4	6.351	420	0 413 94 12 0	420
06-08	62.2	6.349	716	0 704 197 25 0	716
09-11	66.4	4.778	879	0 879 448 99 0	879
12-14	67.8	4.379	879	0 879 528 148 0	879
15-17	67.8	4.393	783	0 783 475 114 0	783
18-20	66.1	4.585	590	0 590 293 40 0	590
21-23	64.5	4.908	143	0 143 60 3 0	143
ALL BOURS	65.7	5.586	4410	0 4391 2095 441 0 4	410
				7,2,2, 2,0,0	
•••••	•	• • • • • • • • • • •	• • • • • • • • • • •	MONTE: OCT	•••
00-02	.0	.000	0		
00-02	.0 53.2			MONTH: OCT 0 0 0 0 0	 0 426
		.000	0	MONTH: OCT  0 0 0 0 0  0 284 4 0 0	
03-05	53.2	.000 7.046	0	MONTH: OCT  0 0 0 0 0  0 284 4 0 0  0 507 12 0 0	426
03-05 06-08	53.2 53.6	.000 7.046 7.141	0 426 743	MONTH: OCT  0 0 0 0 0  0 284 4 0 0  0 507 12 0 0  0 849 66 3 0	426 743
03-05 06-08 09-11	53.2 53.6 59.1	.000 7.046 7.141 5.845	0 426 743 909	MONTH: OCT  0 0 0 0 0  0 284 4 0 0  0 507 12 0 0  0 849 66 3 0  0 894 118 6 0	426 743 909
03-05 06-08 09-11 12-14	53.2 53.6 59.1 61.5	.000 7.046 7.141 5.845 5.019	0 426 743 909 909	MONTH: OCT  0 0 0 0 0 0 284 4 0 0 0 507 12 0 0 0 849 66 3 0 0 894 118 6 0 0 802 100 1 0	426 743 909 909
03-05 06-08 09-11 12-14 15-17	53.2 53.6 59.1 61.5	.000 7.046 7.141 5.845 5.019 4.742	0 426 743 909 909	MONTH: OCT  0 0 0 0 0  0 284 4 0 0  0 507 12 0 0  0 849 66 3 0  0 894 118 6 0  0 802 100 1 0  0 536 52 0 0	426 743 909 909 810

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### WET BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

		LS	r to utc: 4	7	HIMOM	: NOV			
Hours   LST	MEAN	STANDARD DEVIATION	TOTAL OBS		ER OF HOUR 2 GE 50	S WITH GE 67	TEMPERATURE GE 73 G	S DEG F E 80	HOURS
00-02	.0	.000	0	0	0	0	0	0	0
03-05	44.0	6.849	391	4	90	0	0	0	391
06-08	43.7	7.007	688	13	143	0	0	0	688
09-11	49.7	6.050	850	0	432	3	o	0	850
12-14	53.0	5.372	855	0	620	7	0	0	855
15-17	53.5	5.137	756	0	586	5	0	0	756
18-20	50.7	5.569	507	0	284	3	0	0	507
21-23	48.4	5.414	44	o	15	0	0	0	44
ALL BOURS	49.7	7.024	4091	17	2170	18	0	0	4091
•••••	• • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •		• • • • • • •
			• • • • • • • • • •		MONTH	: DEC			
00-02	.0	.000	0	0	0	0	0	0	0
03-05	40.0	5.960	326	37	18	0	0	0	326
06-08	39.1	6.287	658	99	46	0	0	0	658
09-11	44.4	5.637	864	23	172	0	0	0	864
12-14	48.6	4.933	865	3	411	0	0	0	865
15-17	49.6	4.796	745	2	411	0	o	0	745
18-20	47.3	5.046	405	1	149	0	0	0	405
21-23	44.1	5.295	42	0	8	0	0	0	42
ALL BOURS	45.4	6.690	3905	165	1215	0	0	0	3905

E-5-2-6

# WET BULB TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: AFR 81 - MAR 91
LST TO UTC: + 7 MONTH: ALL

		LS	T TO UTC:	7 MON	TH: ALL			
Hours LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HO LE 32 GE 50		TEMPERATU GE 73	RES DEG F GE 80	TOTAL HOURS
00-02	.0	.000	0	0 0	) 0	0	0	0
03-05	51.3	11.378	4971	111 2532	758	84	1	4971
06-08	51.7	11.949	8683	276 4641	1420	212	o	8683
09-11	56.3	10.620	10697	49 7487	2311	675	o	10697
12-14	58.9	9.592	10704	11 8733	2732	1021	7	10704
15-17	59.5	9.374	9504	5 8014	2572	966	7	9504
18-20	58.6	9.800	6832	6 5387	1829	540	2	6832
21-23	58.8	9.904	1336	0 1062	386	88	o	1336
ALL HOURS	56.5	10.859	52727	458 37856	5 12008	3586	17	52727

# DEW POINT TEMPERATURE SUMMARY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7

		rs	T TO UTC: +	MONTH: JAN	
BOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27 GE 37 LE 55 GE 65	TOTAL HOURS
00-02	-0	.000	0	0 0 0	0
03-05	32.7	7.844	405	106 120 405 0	405
06-08	32.2	7.808	718	201 200 717 0	718
09-11	35.0	7.538	895	135 342 892 0	895
12-14	34.5	8.774	893	200 361 890 0	893
15-17	33.5	9.359	780	207 287 778 0	780
18-20	35.1	8.603	521	93 219 521 0	521
21-23	34.8	7.841	37	9 16 37 0	37
ALL HOURS	33.9	8.477	4249	<b>951 1545 4240</b> 0	4249
•••••	• • • • • • • • •	**********		MONTH: FEB	, <b></b>
	. <b></b>			MANIEL LED	
00-02	.0	.000	0	0 0 0 0	828
03-05	32.9	9.339	383	124 148 383 0	828
06-08	32.7	9.010	669	212 244 669 0	828
09~11	35.2	8.833	828	175 376 828 0	828
12-14	34.1	9.514	828	209 352 828 0	828
15-17	32.9	9.552	740	210 271 740 0	828
18-20	34.5	9.469	514	131 232 514 0	828
21-23	34.8	9.249	85	24 40 85 0	828
ALL BOURS	33.8	9.347	4047	1085 1663 4047 0	4047

E - 5 - 3 - 1

### DEW POINT TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: MAR MEAN STANDARD BOURS TOTAL MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F TOTAL LST LE 27 CE 37 LE 55 GE 65 DEVIATION OBS HOURS 00-02 .0 .000 0 0 0 0 0 33.2 10.275 03-05 447 127 189 447 C 447 9.885 779 33.8 06-08 206 343 779 0 779 09-11 9.916 927 207 470 924 35.3 0 927 12-14 33.8 9.940 929 252 401 924 929 15~17 32.5 9.623 845 267 296 845 0 845 252 18-20 33.4 10.123 616 167 616 0 616 21-23 33.3 9.986 129 35 54 129 0 129 ALL BOURS | 9.991 4672 1261 2005 4664 0 4672 MONTH: APR .000 0 00-02 .0 0 0 0 0 900 03-05 32.6 9.035 430 129 140 430 0 ₹00 06-08 34.4 8.919 744 169 285 738 0 09-11 35.3 8.258 900 151 389 898 0 900 7.707 34.4 900 12-14 171 354 900 0 900 33.7 15-17 7.840 804 185 277 804 0 900 18-20 33.1 8.328 588 152 201 21-23 33.2 8.613 133 31 47 133 900 ALL BOURS 8.366 4499 988 1693 4491 4499

B - 5 - 3 - 2

### DEW POINT TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: MAY

		LST	T TO UTC: + 7	MONTH: MAY	
HOURS	MEAN	STANDARD	TOTAL	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F	TOTAL
LST	;	DEVIATION	OBS		HOURS
00-02	.0	.000	0	0 0 0	0
03-05	34.1	9.099	422	109 150 411 2	422
06-08	36.5	8.616	732	101 342 711 2	732
09-11	37.6	8.230	909	73 449 888 3	909
12-14	37.3	7.298	908	53 438 899 0	908
15-17	37.0	6.719	790	48 370 784 0	790
18-20	36.3	7.476	591	56 256 581 0	591
21-23	35.0	7.550	148	23 57 147 0	148
ALL HOURS	36.7	7.924	4500	463 2062 4421 7	4500
******	• • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	Monte: Jun	•
00-02	.0	.000	0	Month: Jun 0 0 0 0	900
00-02 03-05	.0	.000 11.329	0 435		900
				0 0 0 0	
03-05	38.3	11.329	435	0 0 0 0 82 238 402 4	900
03-05 06-08	38.3 40.4	11.329	435 737	0 0 0 0 82 238 402 4 95 470 677 14	900 900
03-05 06-08 09-11	38.3 40.4 42.4	11.329 10.809 9.947	435 737 900	0 0 0 0 82 238 402 4 95 470 677 14 42 611 808 12	900 900 900
03-05 06-08 09-11 12-14	38.3 40.4 42.4 43.1	11.329 10.809 9.947 8.817	435 737 900 900	0 0 0 0 82 238 402 4 95 470 677 14 42 611 808 12 5 660 814 8	900 900 900
03-05 06-08 09-11 12-14 15-17	38.3 40.4 42.4 43.1 43.0	11.329 10.809 9.947 8.817 7.737	435 737 900 900 798	0 0 0 0 82 238 402 4 95 470 677 14 42 611 808 12 5 660 814 8 0 601 743 4	900 900 900 900

E-5-3-3

# DEW POINT TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO LTC: + 7

		LST	TO UTC: + 7		
Hours LST	MEAN	STANDARD DEVIATION	TOTAL		OTAL OURS
00-02	.0	.000	0	0 0 0	0
03-05	57.3	10.556	426	9 397 134 110	426
06-08	58.0	9.928	728	7 694 213 207	728
09-11	57.7	9.300	906	3 874 279 234	906
12-14	56.9	8.738	908	0 889 319 175	908
15~17	56.1	8.086	814	0 802 330 116	814
18-20	56.3	8.057	651	0 646 259 93	651
21-23	57.0	8.394	164	0 160 59 28	164
ALL BOURS	57.0	9.065	4597	19 4462 1593 963 49	597
acors			***********		
aours	•			MONTH: AUG	••••
00-02		.000		MONTH: AUG	930
******	-0			MONTH: AUG 0 0 0 0	••••
00-02	-0	.000	0	MONTH: AUG 0 0 0 0 9 1 450 78 153	930
00-02	.0 60.9	.000 7.900	0	MONTH: AUG  0 0 0 0  1 450 78 153  0 760 119 283	930 930
00-02 03-05 06-08	.0 60.9 61.4	.000 7.900 7.403	0 460 771	MONTH: AUG  0 0 0 0  1 450 78 153  0 760 119 283  0 925 158 314	930 930 930
00-02 03-05 06-08 09-11	.0 60.9 61.4 61.1	.000 7.900 7.403 6.963	0 460 771 930	MONTH: AUG  0 0 0 0  1 450 78 153  0 760 119 283  0 925 158 314  0 924 198 250	930 930 930 930
00-02 03-05 06-08 09-11 12-14	.0 60.9 61.4 61.1 59.8	.000 7.900 7.403 6.963 7.096	0 460 771 930 930	MONTH: AUG  0 0 0 0  1 450 78 153  0 760 119 283  0 925 158 314  0 924 198 250  0 831 227 158	930 930 930 930 930
00-02 03-05 06-08 09-11 12-14 15-17	.0 60.9 61.4 61.1 59.8 58.3	.000 7.900 7.403 6.963 7.096 7.313	0 460 771 930 930 839	MONTH: AUG  0 0 0 0  1 450 78 153  0 760 119 283  0 925 158 314  0 924 198 250  0 831 227 158  0 648 194 129	930 930 930 930 930 930

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## DEW POINT TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: SEP

		LS.	r to utc: +	7 MONTH: SEP	
Hours LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27 GE 37 LE 55 GE 65	TOTAL HOURS
00-02	.0	.000	0	0 0 0 0	0
03-05	52.6	10.696	420	3 384 240 58	420
06-08	53.5	10.363	716	5 669 384 115	716
09-11	54.7	9.269	879	0 849 432 143	879
12-14	53.4	9.046	879	0 845 479 96	879
15-17	51.8	9.156	783	1 731 476 58	783
18-20	51.4	9.431	590	1 539 360 43	590
21-23	51.8	9.375	143	1 131 89 9	143
ALL HOURS	53.0	9.653	4410	11 4148 2460 522	4410
				MONTH: OCT	
00-02	.0	.000	0	0 0 0 0	909
03-05	43.6	12.104	426	39 284 352 7	909
06-08	44.3	11.763	743	54 511 608 14	909
09-11	46.4	11.179	909	48 720 700 20	909
12-14	45.6	10.894	909	60 721 732 16	909
15-17	44.0	10.768	810	68 610 699 6	909
18-2C	44.9	10.937	565	41 433 478 19	909
21-23	45.3	10.816	83	8 65 67 1	909
ALL HOURS	45.0	11.260	4445	318 3344 3636 83	4445

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#### DEW POINT TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: NOV

			t to ote:	•		MUNTH:	MOA		
Bours Lst	HEAN	STANDARD DEVIATION	TOTAL OBS				WITH LE 55	TEMPERATURES DE GE 65	HOURS
00-02	.0	.000	0	• • • • • • • • • • • • • • • • • • • •	0	0	0	0	0
03-05	33.8	11.430	391	1	118	131	381	0	391
06-08	34.1	11.428	688	2	206	263	659	0	688
09-11	36.7	10.744	850	1	L75	407	800	1	850
12-14	35.9	10.966	855	2	201	369	806	3	855
15-17	34.9	10.601	756	2	202	305	729	1	756
18-20	35.4	10.459	507	1	111	200	493	3	507
21-23	35.6	11.083	44		10	20	43	0	44
ALL HOURS	35.3	10.969	4091	10	023	1695	3911	8	4091
					• • • •				
						MONTH:	DEC		
00-02	.0	.000	0	•••••	0	MONTH:	DEC	0	865
00-02	.0 32.5	.000 9.772	o 326		0 79	• • • • • • •	• • • • •	o 0	865 865
						0	0	-	
03-05	32.5	9.772	326	1	79	0 111	0 326	0	865
03-05 06-08	32.5 32.0	9.772	326 658	1	79 174	0 111 205	0 326 658	0	865 865
03-05 06-08 09-11	32.5 32.0 35.1	9.772 9.704 9.279	326 658 864	1 1 1	79 174 168	0 111 205 413	326 658 864	0 0	865 865 865
03-05 06-08 09-11 12-14	32.5 32.0 35.1 35.1	9.772 9.704 9.279 9.801	326 658 864 865	1 1 1	79 174 168 177	0 111 205 413 414	0 326 658 864 864	0 0 0	865 865 865
03-05 06-08 09-11 12-14 15-17	32.5 32.0 35.1 35.1 34.8	9.772 9.704 9.279 9.801 10.185	326 658 864 865 745	1 1 1	79 174 168 177	0 111 205 413 414 350	0 326 658 864 864 745	0 0 0 0	865 865 865 865

# DEW POINT TEMPERATURE SUMMARY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91 MONTH: ALL

LST TO UTC: + 7 MONTH: A

Hours Let	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMB		RS WITH LE 55	TEMPERATURES GE 65	DEG F TOTAL HOURS
00-02	-0	.000	0	0	0	0	0	0
03-05	40.8	14.414	4971	926	2742	3989	334	4971
06-08	41.3	14.186	8683	1430	4986	6932	635	8683
09-11	42.8	13.217	10697	1177	6825	8471	727	10697
12-14	42.1	13.069	10704	1328	6728	8653	548	10704
15-17	41.2	12.872	9504	1353	5731	7900	343	9504
18-20	42.1	12.877	6832	836	4287	5582	292	6832
21-23	43.6	13.646	1336	166	882	1015	85	1336
ALL BOURS	41.9	13.394	52727	7216	32181	42542	2964	52727

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7

morroe		• • • • • • • •	DOT AM	*********	DIMY COP			AT 1700	• • • • • • •	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Hours Let	10%	20%	30#	IVE BUMI 40%	50%	60 <b>%</b>	70%	80%	90%	MEAN	TOTAL OBS
•••••	·	• • • • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •	•••••	
00-02										.0	0
03-05	100.0	100.0	99.0	90.4	81.2	63.0	43.7	19.5	6.2	64.7	405
06-08	100.0	100.0	99.2	94.8	83.6	66.2	47.5	21.3	7.4	66.7	718
0 <del>9</del> -11	100.0	99.6	94.9	81.1	63.1	44.5	24.1	9.3	3.9	56.5	895
12-14	100.0	93.7	70.0	48.3	27.8	16.3	6.8	3.2	1.1	41.2	893
15-17	100.0	86.5	55.3	35.0	21.3	11.0	6.3	3.3	.9	36.6	780
18-20	100.0	96.7	83.5	56.4	39.3	22.8	11.1	6.0	1.5	46.4	521
21-23	100.0	100.0	89.2	78.4	48.6	40.5	21.6	2.7	2.7	53.3	37
ALL	100.0		00.0	<i>c</i> = 0		35.0	21.4	9.5	3.3	50.9	4249
HOURS	100.0	95.7	82.0	65.9	50.2	35.2	21.4				
											***************************************
				••••••	••••••		••••••	M	• • • • • • •		0
				••••••	••••••	•••••	••••••	M	• • • • • • •	(B	
00-02	:  							M	ONTH: FE	.0	0
00-02	100.0	99.2	95.6	84.1	64.5	46.2	31.1	16.2	ONTH: FE	.0 58.6	0
00-02 03-05 06-08	100.0	99.2 99.6	95.6 97.5	84.1	64.5 69.1	46.2 49.3	31.1	16.2 16.4	4.4 3.1	.0 58.6 60.0	0 383 669
00-02 03-05 06-08 09-11	100.0 100.0	99.2 99.6 97.7	95.6 97.5 84.3	84.1 89.2 64.9	64.5 69.1 44.9	46.2 49.3 28.7	31.1 32.0 15.9	16.2 16.4 7.4	4.4 3.1	.0 58.6 60.0 48.9	0 383 669 828
00-02 03-05 06-08 09-11 12-14	100.0 100.0 100.0	99.2 99.6 97.7 83.8	95.6 97.5 84.3 56.5	84.1 89.2 64.9 36.4	64.5 69.1 44.9 19.7	46.2 49.3 28.7	31.1 32.0 15.9 5.3	16.2 16.4 7.4	4.4 3.1 1.3	.0 58.6 60.0 48.9 35.8	0 383 669 828 828
00-02 03-05 06-08 09-11 12-14 15-17	100.0 100.0 100.0 100.0	99.2 99.6 97.7 83.8 73.6	95.6 97.5 84.3 56.5 42.6	84.1 89.2 64.9 36.4 24.7	64.5 69.1 44.9 19.7	46.2 49.3 28.7 11.0	31.1 32.0 15.9 5.3	16.2 16.4 7.4 1.7	4.4 3.1 1.3	.0 58.6 60.0 48.9 35.8	0 383 669 828 828 740

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: AFR 81 - MAR 91
LST TO UTC: + 7 MONTH: MAR

BOURS		• • • • • • • •	RELAT	IVE BUMI	DITY GRE	ATER THA	N OR EQU	AL TO	•••••		• • • • • • • • • • • • • • • • • • • •
LST	10%	20%		40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02		••••••	• • • • • • • •			******	*******	•••••	• • • • • • •	.0	0
03-05	100.0	98.0	85.2	68.0	51.0	39.1	30.4	16.8	3.1	53.7	447
06-08	100.0	99.1	87.7	70.6	53.4	41.2	30.9	17.3	2.6	54.8	779
09-11	100.0	89.2	67.0	45.4	29.6	19.1	10.0	3.5	.9	40.8	927
12-14	100.0	69.8	42.6	24.4	14.6	7.3	3.6	1.8	.5	30.8	929
15-17	100.0	56.3	34.1	18.6	11.0	6.7	3.8	1.7	.5	27.5	845
18-20	100.0	71.4	44.8	25.8	16.1	9.9	5.8	2.3	1.0	32.1	616
21-23	100.0	86.0	63.6	38.8	21.7	13.2	9.3	4.7		37.9	129
ALL HOURS	100.0	79.5	58.4	40.0	27.3	18.8	12.5	6.3	1.2	38.7	4672
								M	ONTH: AF	'R	
00-02								M	ONTH: AF	'R	0
•••••								M	ONTH: AF	'R	
00-02	· · · · · · · · · · · · · · · · · · ·	•••••	••••••	•••••		•••••	4.4	1.9	ONTH: AF	0	0
00-02 03-05	100.0	95.1	69.3	37.4	20.2	11.2	4.4 5.4	1.9	ONTH: AF	.0 38.6	0 430
00-02 03-05 06-08	100.0	95.1 96.0	69.3 69.9	37.4 39.7	20.2	11.2	4.4 5.4	1.9 1.7	ONTH: AF	.0 38.6 38.9	0 430 744
00-02 03-05 06-08	100.0 100.0 100.0	95.1 96.0 70.2	69.3 69.9 33.8	37.4 39.7 16.3	20.2 20.4 7.8	11.2 11.8 3.0	4.4 5.4 .6	1.9 1.7	ONTH: AF	.0 38.6 38.9 27.7	0 430 744 900
00-02 03-05 06-08 09-11 12-14	100.0 100.0 100.0	95.1 96.0 70.2 48.4	69.3 69.9 33.6	37.4 39.7 16.3 6.9	20.2 20.4 7.8 3.3	11.2 11.8 3.0	4.4 5.4 .6	1.9 1.7 .2	ONTH: AF	.0 38.6 38.9 27.7 21.7	0 430 744 900 900
00-02 03-05 06-08 09-11 12-14 15-17	100.0 100.0 100.0 100.0 99.8	95.1 96.0 70.2 48.4 34.2	69.3 69.9 33.8 17.1 12.8	37.4 39.7 16.3 6.9 5.7	20.2 20.4 7.8 3.3 3.5	11.2 11.8 3.0 1.3	4.4 5.4 .6 .2	1.9 1.7 .2	ONTH: AF	.0 38.6 38.9 27.7 21.7	0 430 744 900 900

OPERATING LOCATION "A"

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY

USAFETAC, ASHEVILLE NC FROM BOURLY OBSERVATIONS PERIOD OF RECORD: APR 81 - MAR 91 STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ YAM : HT/NOM LST TO UTC: + 7 HOURS RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 20% LST 10% 30% 40% 50% 60% 70% 80% 90% MEAN TOTAL OBS 00-02 .0 03-05 100.0 88.4 48.6 21.1 8.1 5.9 4.5 1.4 .9 32.6 422 1.5 06-08 100.0 87.7 45.4 19.1 8.5 4.9 2.7 . 4 31.3 732 100.0 23.0 909 09-11 53.9 20.1 6.5 2.2 1.2 .3 12-14 100.0 34.7 7.5 .6 .1 18.3 908 1.2 15-17 99.7 22.5 5.4 .3 16.8 790 1.5 .9 .1 18-20 99.7 29.6 8.0 4.1 2.2 1.0 .5 18.4 591 21-23 100.0 43.9 12.2 4.1 2.7 1.4 1.4 21.0 148 ALL. HOURS 99.9 49.7 19.9 7.6 3.2 1.8 1.1 .4 .2 22.6 4500 MONTH: JUN 00-02 .0 0 03-05 99.5 78.9 38.4 28.5 435 16.3 5.3 1.4 06-08 99.7 72.0 33.5 4.1 .8 26.9 737 13.2 .3 .1 09-11 99.6 44.0 15.3 20.8 900 4.6 1.2 12-14 99.7 30.9 6.2 1.1 17.5 900 99.2 15-17 20.4 1.9 . 4 15.7 798 99.2 27.0 1.3 17.0 18-20 4.0 627 .6 .2 21-23 99.4 42.0 12.4 .6 20.2 2.4 1.8 .6 169 ALL 42.7 99.5 14.7 .0 20.4 HOURS 5.1 1.6 . 3 .1 4566

B - 6 - 3

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7

	LST TO UTC: + 7 MONTH: JUL											
HOURS			RELAT	IVB HUMI	DITY GRE	ATER THA	N OR BQU	AL TO	• • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	
LST	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS	
00-02			•••••	•••••	•••••	•••••	•••••	• • • • • • • •	• • • • • • •	.0	0	
03-05	100.0	96.9	84.7	66.7	41.1	22.3	9.6	2.1	.5	47.1	426	
06-08	100.0	95.2	83.2	62.2	37.2	19.1	6.5	1.0		45.1	728	
09-11	99.8	87.2	66.0	36.1	16.6	6.0	1.4	.2		35.7	906	
12-14	99.6	78.3	45.4	17.5	5.5	1.3	.1			29.2	908	
15-17	99.6	70.4	32.4	10.4	2.5	.4	.1			26.0	814	
18-20	100.0	73.6	38.6	16.7	5.5	2.2	.9	.2		28.2	651	
21-23	100.0	84.1	54.3	26.2	14.6	3.7	.6			32.8	164	
ALL BOURS	99.8	82.6	56.1	31.8	15.8	7.0	2.4	.4	.0	34.1	4597	
								м	UA: HTMO	IG		
00-02		•••••	• • • • • • • •	•••••	•••••	•••••	•••••		• • • • • • •	.0	0	
03-05	100.0	99.8	95.0	85.0	56.5	30.7	16.7	7.4	2.0	53.9	460	
06-08	100.0	99.9	95.2	79.4	55.6	28.7	13.5	5.2	1.9	52.5	771	
09-11	100.0	96.3	79.9	48.5	22.8	9.4	3.8	1.5	.4	40.7	930	
12-14	100.0	89.6	57.5	22.6	8.3	2.5	1.6	.6	.3	32.9	930	
15-17	100.0	82.2	41.0	14.9	4.1	2.0	1.2	.5	.4	29.1	839	
18-20	100.0	88.1	49.9	22.1	10.2	4.1	2.0	1.1	.5	32.1	657	
21-23	100.0	95.0	68.6	35.8	18.2	9.4	3.1	1.3	1.3	38.1	159	
ALL HOURS	100.0	92.2	68.1	42.0	23.3	11.2	5.5	2.3	.8	39.1	4746	

ALL

BOURS

99.5

84.6

62.8

40.3

25.3

15.4

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91 LST TO UTC: + 7 MONTH: SEP HOURS RELATIVE HUMIDITY GREATER THAN OR EQUAL TO LST 20% 30% 40% 50% 60% 70% 80% 10% 90% MEAN TOTAL OBS 00-02 .0 03-05 100.0 98.8 90.2 70.2 51.0 32.1 17.6 6.0 1.9 51.4 420 06-08 100.0 98.5 90.2 71.4 49.6 31.7 17.2 5.6 1.8 51.1 716 09-11 100.0 92.5 70.3 42.7 23.1 10.4 1.0 .5 38.7 879 3.4 12-14 100.0 80.5 47.7 20.1 7.8 2.8 1.6 .7 .3 30.5 15-17 100.0 69.5 34.6 13.4 6.3 3.2 1.5 .3 27.2 783 18-20 100.0 77.3 44.4 22.2 12.0 6.9 3.2 1.0 31.3 590 21-23 100.0 94.4 63.6 32.9 15.4 9.1 2.8 .7 36.2 143 ALT. BOURS 100.0 85.6 60.9 37.2 22.3 12.6 6.3 2.0 .6 37.2 4410 MONTH: OCT •••••••••••••••••••••••••••••••••• 00-02 .0 99.8 89.4 67.8 52.0 426 03-05 98.8 50.9 36.9 21.6 8.2 3.3 53.2 52.7 06-08 100.0 99.5 91.7 70.5 34.7 10.4 2.7 743 21.9 09-11 99.7 91.9 66.2 44.1 27.4 14.7 7.5 2.6 .4 40.0 909 12-14 99.4 73.9 47.4 24.4 10.7 5.2 2.3 .9 .3 31.1 909 15-17 98.5 66.3 38.9 15.8 6.8 3.1 2.3 1.1 . 1 27.8 810 18-20 99.6 57.0 15.6 . 4 565 84.1 32.4 9.2 5.1 34.9 1.1 21-23 100.0 96.4 69.9 53.0 30.1 13.3 41.2 83 6.0 3.6

8.9

3.6

1.0

38.6

4445

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7

LST TO UTC: + 7 MONTH: NOV											
HOURS			relat	IVE HUMI	DITY GRE	ATER THA	IN OR EQU	AL TO	• • • • • • • •	•••••	• • • • • • • • • • • • • • • • •
LST	10%	20%	30%	40%	50%	60%	70%	<b>808</b>	90%	MRAN	TOTAL OBS
00-02		• • • • • • • •	• • • • • • • •			*******	•••••	•••••	• • • • • • •	.0	0
03-05	100.0	98.0	87.5	73.7	49.1	34.8	21.7	10.7	2.6	52.1	391
06-08	100.0	98.3	90.3	76.9	55.2	37.9	23.7	11.8	4.2	54.3	688
09-11	100.0	92.0	72.5	49.2	31.6	20.2	11.2	4.7	1.3	42.6	850
12-14	99.9	76.6	43.6	25.0	17.2	8.2	4.1	2.3	1.1	32.1	855
15-17	100.0	69.7	33.1	19.4	12.8	5.2	3.0	1.3	.4	28.8	756
18-20	100.0	87.0	60.6	33.3	18.9	12.0	5.7	2.2	1.2	36.4	507
21-23	100.0	90.9	75.0	54.5	36.4	22.7	11.4	4.5	4.5	44.0	44
ALL HOURS	100.0	85.7	62.1	43.7	29.3	18.3	10.6	5.0	1.7	40.0	4091
•••••				•••••		•••••	*******	•••••	• • • • • • •	*********	• • • • • • • • • • • • • • • • • • • •
									ONTH: DE	c	
00-02				,			•••••	•••••	• • • • • • •	.0	0
03-05	100.0	98.5	96.3	88.3	77.3	60.7	38.0	16.9	4.0	62.4	326
06-08	100.0	99.2	95.7	88.9	79.8	64.9	41.5	20.4	5.2	64.2	658
09-11	100.0	97.3	88.2	78.1	63.9	44.4	24.2	9.7	2.1	55.4	864
12-14	99.8	87.7	73.5	52.9	31.6	16.1	6.6	2.7	1.2	41.6	865
15-17	99.7	85.2	65.4	42.7	22.7	13.0	6.3	2.1	.9	38.1	745
18-20	100.0	93.8	81.2	63.5	45.2	27.7	11.4	4.2	.5	47.3	405
21-23	100.0	100.0	76.2	64.3	45.2	33.3	11.9	2.4		48.1	42
ALL HOURS	99.9	93.0	81.7	66.8	50.5	35.1	19.5	8.5	2.2	50.2	3905

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7

BOURS	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO											
LST	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS	
00-02	• • • • • • • •	•••••	• • • • • • •			• • • • • • • •	••••••		• • • • • • •	.0	0	
03-05	99.9	95.8	81.1	63.3	45.4	31.1	19.4	8.7	2.3	49.2	4971	
06-08	100.0	95.3	81.4	64.2	47.0	32.1	19.9	9.2	2.4	49.6	8683	
09-11	99.9	84.2	62.9	42.8	27.5	16.6	8.4	3.3	.9	39.1	10697	
12-14	99.9	70.5	42.7	23.2	12.1	5.9	2.6	1.1	.4	30.1	10704	
15-17	99.7	61.2	32.9	16.6	8.6	4.5	2.4	.9	.3	27.0	9504	
18-20	99.9	70.4	43.9	25.2	14.7	8.5	4.1	1.5	.4	31.2	6832	
21-23	99.9	78.1	49.9	29.6	17.2	9.8	4.6	1.4	.4	33.5	1336	
ALL HOURS	99.9	78.2	55.4	37.0	24.0	14.9	8.4	3.6	1.0	36.6	52727	

PPPPP	PPP	AAA	AAA	RRRR	RRRR	TTTTTTTT	FFFFFFFFF
PPPPP	PPPP	2222	AAAA	RRRR	RRRRR	TOTOTOTOTOTO	FFFFFFFFF
PP	PP	λλ	λλ	RR	RR	TT	FF
PP	PP	λA	λA	RR	RR	TT	PF
PPPPP	PPPP	λλ	λA	RRRR	RRRRR	TT	FFFFFF
PPPPP	PPP	****	AAAAA	RRRR	RRRR	TT	<b>FFFFF</b>
PP		λλλλλ	AAAAA	RR	RR	TT	FF
PP		λA	λλ	RR	RR	TT	FF
PP		λλ	λA	RR	RR	TT	FF
PP		λλ	λA	RR	RR	TT	FF

#### PART F

#### PRESSURE SUMMARIES

ALL PRESSURE DATA IN PART F IS TAKEN FROM HOURLY OBSERVATIONS. IT IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD SYNOPTIC REPORTING TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

#### SEA LEVEL PRESSURE.

IN MILLIBARS, TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS. THIS SUMMARY IS NOT AVAILABLE FOR METAR REPORTING SITES.

#### ALTIMETER SETTING.

IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS.

#### STATION PRESSURE.

IN INCRES OF MERCURY (Hg), TABLES GIVE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNTS.

PRESSURE CONVERSIONS ARE: 1 MILLIBAR = 0.02953 INCHES OF MERCURY (HG).

## SEA LEVEL PRESSURE IN MILLIBARS FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7

			LST TC	ore: +	′									
Hours (LST)	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	oct	NOV	DEC	ANN
0200	MEAN	.0	.0	.0	.0	.0	.0					.0		
0200	SD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.0 .000
	TOT OBS	0	0	0	0	0	0	0	.000	000	.000	.000	0	.000
			-	-	_	•	•	•	•	•	•	•	•	•
0500	MEAN	1017.9	1015.8	1013.2	1011.3	1009.4	1008.4	1010.3	1010.4	1010.3	1012.8	1015.4	1016.8	1012.5
	SD	4.617	4.487	4.406	3.434	2.761	2.298	2.302	2.346	2.824	3.217	4.204	4.916	4.642
	TOT OBS	203	192	225	215	212	218	213	230	210	214	196	166	2494
0800	MEAN	1019.3	1017.4	1014.9	1013.0	1010.8	1009.8	1011.7	1011.8	1011.6	1014.4	1016.8	1018.6	1014.1
	SD	4.642	4.371	4.396	3.608	2.792	2.260	2.197	2.226	2.832	3.238	4.041	4.931	4.706
	TOT OBS	296	276	309	300	303	300	301	310	293	303	282	275	3548
1100	MEAN	1020.2	1018.1	1015.3	1013.1	1010.6	1009.6	1011.5	1011.8	1011.7	1014.4	1017.0	1019.4	1014.3
	SD	4.548	4.298	4.339	3.554	2.800	2.250	2.181	2.262	2.762	3.263	3.955	4.917	4.925
	TOT OBS	299	276	309	300	302	300	302	310	293	303	284	289	3567
1400	MEAN	1017.3	1015.6	1013.2	1011.0	1008.7	1007.7	1009.4	1009.6	1009.5	1012.0	1014.5	1016.7	1012.0
	SD	4.419	4.170	4.144	3.567	2.805	2.211	2.209	2.293	2.787	3.272	3.805	4.603	4.664
	TOT OBS	298	276	310	300	302	300	302	310	293	303	285	287	3566
1700	MRAN	1016.6	1014.5	1011.9	1009.1	1007.0	1005.7	1007.2	1007.6	1008.0	1011.1	1014.0	1016.2	1010.6
	SD	4.310	4.345	4.224	3.373	2.920	2.181	2.306	2.438	2.952	3.293	3.982	4.335	5.000
	TOT OBS	221	214	251	231	223	229	239	248	227	235	218	206	2742
2000	MEAN	1016.9	1015.4	1012.3	1009.5	1007.3	1005.8	1007.7	1008.4	1008.9	1011.5	1015.4	1017.3	1010.6
	SD	4.550	4.380	4.228	3.363	2.867	2.174	2.521	2.565	2.980	3.269	3.649	4.679	4.996
	TOT OBS	116	127	159	151	163	189	190	183	165	141	114	93	1791
2300	MEAN	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	SD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	TOT OBS	0	0	0	0	0	o	0	0	0	0	0	0	0
ALL	MEAN	1018.3	1016.3	1013.7	1011.4	1009.2	1008.0	1009.8	1010.1	1010.2	1012.9	1015.6	1017.7	1012.6
HOURS	SD	4.711	4.513	4.474	3.808	3.165	2.736	2.830	2.812	3.165	3.527	4.132	4.904	5.024
	TOT OBS	1433	1361	1563	1497	1505	1536	1547	1591	1481	1499	1379	1316	17708

## ALTIMETER SETTING IN INCHES FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7

Hours (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
0200	MEAN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	SD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-000
	TOT OBS	C	0	0	0	0	0	0	0	0	0	0	0	0
0500	MEAN	30.08	30.02	29.95	29.91	29.87	29.85	29.91	29.91	29.90	29.96	30.02	30.05	29.95
	SD [	.133	.129	.128	.099	.077	.066	.066	.066	.082	.093	.120	.144	.125
	TOT OBS	203	192	225	215	212	218	213	230	210	214	196	166	2494
0800	MEAN	30.12	30.07	30.00	29.96	29.91	29.89	29.95	29.95	29.94	30.00	30.05	30.10	29.99
	SD	.133	.126	.128	.103	.080	.065	.063	.062	.082	.094	.115	.142	.125
	TOT OBS	296	276	309	300	303	300	301	310	293	303	282	276	3549
1100	MEAN	30.15	30.09	30.02	29.96	29.90	29.88	29.94	29.95	29.94	30.01	30.07	30.12	30.00
	SD	.132	.124	.126	.102	.080	.065	.063	.063	.080	.095	.114	.143	.132
	TOT OBS	298	276	309	300	303	300	301	310	293	303	284	289	3566
1400	MEAN	30.06	30.02	29.95	29.90	29.85	29.83	29.88	29.89	29.88	29.94	29.99	30.05	29.93
	SD	.128	.121	.121	.102	.079	.064	.063	.065	.080	.095	.109	.134	.125
	TOT OBS	298	276	310	300	302	300	302	310	293	303	285	287	3566
1700	MEAN	30.04	29.98	29.91	29.85	29.80	29.77	29.82	29.83	29.83	29.91	29.98	30.03	29.89
	SD	.125	.126	.123	.096	.082	.062	.067	.069	.084	.095	.114	.127	.134
	TOT OBS	221	214	251	231	223	229	239	248	227	235	218	206	2742
2000	MEAN	30.05	30.01	29.93	29.86	29.81	29.77	29.83	29.85	29.85	29.92	30.01	30.06	29.89
	SD	.131	.127	.122	.096	.081	.061	.071	.072	.083	.094	.101	.134	.132
	TOT OBS	116	127	159	150	163	189	190	183	165	141	114	93	1790
2300	MEAN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	SD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	TOT OBS	0	0	0	0	0	0	0	0	0	0	0	0	0
ALL	MEAN	30.09	30.04	29.97	29.92	29.86	29.84	29.89	29.90	29.89	29.96	30.02	30.07	29.95
HOURS	SD	.136	.130	.130	.109	.090	.079	.082	.080	.091	.102	.118	.142	.135
	TOT OBS	1432	1361	1563	1496	1506	1536	1546	1591	1481	1499	1379	1317	17707

# STATION PRESSURE IN INCHES FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786

STATION NAME: WILLIAMS AFB/CHANDLER AZ

PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7

				020.	<b>,</b>									
HOURS (LST)	STATS	JAN	PEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANN
0200	MEAN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	SD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	TOT OBS	0	0	0	0	0	0	0	0	0	0	0	0	0
0500	MEAN	28.60	28.55	28.48	28.44	28.40	28.38	28.44	28.44	28.43	28.49	28.54	28.57	28.47
	SD	.128	.124	.123	.095	.075	.064	.064	.065	.080	.088	.115	.138	.120
	TOT OBS	204	191	225	215	212	218	213	230	211	213	196	166	2494
0800	MEAN	28.63	28.59	28.52	28.48	28.44	28.42	28.48	28.48	28.47	28.53	28.58	28.62	28.52
	SD	.128	.121	.123	.098	.078	.063	.060	.060	.079	.090	.113	.135	.120
	TOT OBS	294	277	311	299	302	302	298	311	294	300	284	278	3550
1100	MEAN	28.66	28.61	28.54	28.49	28.43	28.41	28.47	28.48	28.47	28.53	28.59	28.64	28.53
	SD	.127	.119	.121	.098	.077	.064	.060	.060	.076	.091	.109	.137	.126
	TOT OBS	297	276	309	300	303	300	301	310	293	303	284	290	3566
1400	MEAN	28.58	28.54	28.48	28.43	28.38	28.36	28.41	28.42	28.41	28.46	28.52	28.57	28.46
	SD	.123	.116	.116	.098	.077	.062	.062	.064	.078	.091	.105	.129	.120
	TOT OBS	298	276	310	300	302	300	302	310	293	303	285	287	3566
1700	MEAN	28.56	28.51	28.44	28.38	28.33	28.30	28.35	28.36	28.36	28.44	28.50	28.55	28.42
	SD	.120	.121	.118	.092	.079	.058	.065	.066	.081	.091	.110	.122	.128
	TOT OBS	221	214	251	231	223	229	239	248	227	235	218	206	2742
2000	MEAN	28.57	28.53	28.45	28.39	28.34	28.31	28.36	28.38	28.39	28.45	28.54	28.58	28.42
	SD	.126	.121	.117	.093	.077	.057	.069	.070	.081	.091	.097	.129	.126
	TOT OBS	116	127	159	150	163	189	190	183	165	141	114	93	1790
2300	MEAN	.00	.00	.00	.00	-00	.00	.00	.00	.00	.00	.00	.00	.00
	SD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	TOT OBS	0	0	0	0	0	0	0	0	0	0	0	0	0
ALL	MEAN	28.61	28.56	28.49	28.44	28.39	28.37	28.42	28.43	28.42	28.49	28.55	28.59	28.48
HOURS		.130	.125	.125	.105	.087	.077	.079	.078	.088	.098	.114	.136	.130
	TOT OBS	1430	1361	1565	1495	1505	1538	1543	1592	1483	1495	1381	1320	17708

PPPPPPPP         AAAAA           PPPPPPPPPP         AAAAAA		AAA	RRRR	RRRR	TTTTTTTTT	GGGGGG		
		AAAA	RRRR	RRRRR	Telefoldistr	GGGGGGG		
PP	PP	ልእ	λλ	RR	RR	TT	GG	GG
PP	PP	λA	AA	RR	RR	TT	GG	
PPPPPI	PPPP	λλ	AA	RRRR	RRRRR	TT	GG	
PPPPPI	PPP	አአአአአ	AAAAA	RRRR	RRRR	TT	GG	GGGG
PP		****	XXXXX	RR	RR	TT	GG	GGGGG
PP		λλ	AA	RR	RR	TT	GG	GG
PP		AA	AA	RR	RR	TT	GG	GGGGG
PP AA A		λλ	RR	ŖR	TT	GGGGGG		

#### PART G

#### CROSSWIND SUMMARY

#### CROSSWIND SUMMARIES.

THESE TABLES ARE CREATED FROM HOURLY AND SPECIAL OBSERVATIONS (INCLUDING PEAK GUST REMARKS). THE TABLES ARE SUMMARIZED AS POLLOWS:

- BY EIGHT 3-BOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY MONTH (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).

THE TABLES GIVE PERCENT OCCURRENCE FREQUENCY (POF) OF THE "CROSS-RUNWAY WIND COMPONENT" FOR THE WIND SPEED CLASSES SPECIFIED IN THE TABLE HEADINGS. THERE ARE TWO COMPONENT CATEGORIES:

THE FIRST COMPONENT IS COMPUTED FROM THE REPORTED WIND DIRECTION AND WIND SPEED FROM BOURLY RECORD OR RECORD-SPECIAL OBSERVATIONS.

THE SECOND COMPONENT IS COMPUTED FROM THE HIGHEST REPORTED WIND SPEED AND DIRECTION FROM ALL OBSERVATIONS INCLUDING REMARKS, GUSTS, AND SPECIAL OBSERVATIONS.

OBSERVATION COUNTS INCLUDE CALM WINDS.

VARIABLE WINDS ARE CONSIDERED A DIRECT CROSSWIND IF THE SPEED EQUALS OR EXCEEDS THE SPECIFIED THRESHOLD WIND SPEED VALUE(S).

A TOTAL OBSERVATION COUNT IS INCLUDED.

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 120-300

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: JAN

#### CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

#### CATEGORY B: BIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

			CAT	BGORT B:	H1 CHRS	ET WIND	S KEPOR	CLIKED W.	ITHIN TH	B HOUR	HOOH	G1ES +	SPECIALS)					
TIME (LST)	0000 - 0200					030	0 - 050	0		0600 - 0800						0900 - 1100		
SPEED (KTS)	GB13	GB15	GB25	OBS	GE13	GB15	GB25	OBS	GB13	GB15	GE25	OBS	GE13	GB15	GB25	OBS		
CATEGORY A				0				406	.6	.1		719	1.0	.3		895		
CATEGORY B				0	1.2	.7	.2	413	.8	.7	.3	750	1.3	1.1		926		
•••••		•••••		• • • • • • • • •	•••••	·····		• • • • •	• • • • • • • • • •	• • • • • •	• • • • •	• • • • • • •	•••••	•••••	•••••	••••		
TIME (LST)	1200 - 1400			00	1500 - 1700						2100 - 2300							
SPEED (KTS)	GB13	GE15	GE25	OBS	GE13	GE15	GB25	OBS	GB13	GB15	GE25	OBS	GE13	GE15	GE25	OBS		
CATEGORY A	1.2	.7		896	.9	.6		781	.4	.4		521				37		
CATEGORY B	2.8	1.9	.1	926	3.3	2.4	.2	817	1.7	1.7	.9	531				37		
	 	• • • • • •				•••••		••••	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • •			•••••	•••••	••••		
TIME (LST)			••••		0600	- 2000		••••	•	• • • • • •	ALL	HOURS		•••••	•••••	••••		
122 (201)					0000	- 2000	•			•	ruii	HOOKS						
SPEED KTS				GE13	GE15	GE25	OBS	3		GE13	GE15	GE25	OBS					
CATEGORY A				.9	.4		3812	1		.8	.4		4255					
CATEGORY B				2.0	1.6	.3	3950	)		1.9	1.5	.3	4400					

CATEGORY B

### PERCENTAGE PREQUENCY OF OCCURRENCE OF CROSSWINDS

FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: FEB

#### CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

#### CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE BOUR (BOURLIES + SPECIALS)

TIME (LST)	0000 - 0200					030	0 - 050	00		060	00 -	0800		0900 - 1100			
SPEED (RTS)	CE13	<b>GB</b> 15	GE25	OBS	GR13	GB15	GE25	OBS	GE13	GE15	GE2	5 OBS	GE13	GE15	GE25	OBS	
CATEGORY A				0	.3	.3		383	.3	.1		669	.5	.1		828	
CATEGORY B				o	1.0	1.0		390	1.0	1.0		1 702	1.6	.9		853	
•••••	! • • • • • • • • •	• • • • • •		• • • • • • • • • •	• • • • •		• • • • • •	• • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • •	• • • • • •				• • • • •	
TIME (LST)	1200 - 1400					150	0 - 170	00		180	00 -		2100 - 2300				
SPEED (RTS)	GR13	GE15	GE25	OBS	GB13	GB15	GB25	OBS	GE13	GB15	GE2	5 OBS	GE13	GB15	GE25	OBS	
CATEGORY A	1.1	.5	.1	828	1.5	1.1		740	.8	.2		515				85	
CATEGORY B	4.6	3.1	.5	848	3.7	2.9	.3	764	1.7	1.3		2 527	1.1	1.1		87	
•••••		••••		• • • • • • • • • •	• • • • •	• • • • • •			• • • • • • • • •			• • • • • • •					
	• • • • • • •	•••••	•••••	• • • • • • • • •	•••••	•••••	• • • • • •	• • • • • •	• • • • • • • • •	• • • • •	• • • • •	• • • • • •	• • • • • • • • •			• • • • •	
TIME (LST)					0600	- 2000				i	ALL	HOURS					
SPEED KTS				<b>CE</b> 13	GB15	GE25	ОВ	3	ď	JE13 (	JB15	GE25	OBS				
CATEGORY A	İ			.8	.4	.0	3580	)		.8	.4	.0	4048				

2.6 1.9 .2 3694

2.4 1.8 .2 4171

MAGNETIC RUNWAY HEADING: 120-300

#### PERCENTAGE PRECUENCY OF OCCURRENCE OF CROSSWINDS ..OM BOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 120-300

PERIOD OF RECORD: APR 81 - MAR 91

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ

LST TO UTC: + 7

	LST TO UTC: + 7							MONTH: MAR								
•••••	• • • • • •	• • • • • •	• • • • • •	• • • • • • • • •	• • • • • •	• • • • • •	•••••	••••••								
CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)																
CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)																
TIME (LST)   0000 - 0200															• • • • •	
TIME (LST)	0000 - 0200			00		030	0 - 050	0			0900 - 1100					
SPEED (KTS)	GB13	GE15	GE25	CBS	GB13	GE15	GE25	OBS	GB13	GE15	GE25	OBS	GE13	GE15	GE25	OBS
CATEGORY A				0	.4			447	.1			779	1.2	.3		927
CATEGORY B				0	1.1	.7		456	.6	.5	.1	798	2.6	2.1	.1	945
• • • • • • • • • • • • • • • • • • • •		• • • • • •		• • • • • • • • • • • • • • • • • • • •												••••
TIME (LST)	İ	120	0 - 14	00		150	0 - 170	0		0 - 20	00		2100 - 2300			
SPEED (KTS)	GE13	GB15	GB25	OBS	GE13	GE15	GR25	OBS	GB13	GE15	GE25	OBS	GE13	GE15	GE25	OBS
CATEGORY A	2.2	1.4		929	2.4	1.4	.1	845	1.1	.5		616	1.6			129
CATEGORY B	6.5	4.6	1.1	961	7.6	5.2	.6	877	2.7	1.9	.6	628	4.6	2.3		131
••••••		· • • • • •	• • • • •		• • • • • •	••••	•••••	•••••				• • • • • •	•••••		•••••	
TIME (LST)	1				0600	- 2000	)	•••••	•••••		LL B	ours		•••••	•••••	••••
SPEED KTS				GB13	GE15	GE25	OBS	<b>.</b>	G	1 <b>81</b> 3 G	E15 G	R25	OBS			
CATEGORY A					.8		4096				.7		4672			
CATEGORY B				4.2	3.0	.5	4209			3.9	2.8	.5	4796			

G - 2 - 3

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS

FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: APR

#### CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

#### CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

••••••		• • • • • •		• • • • • • • • •	• • • • • •	• • • • • •	• • • • • • •	••••	• • • • • • • • •		• • • • •		• • • • • • • • • •	•••••		• • • • •	
TIME (LST)		0 - 020		030	0 - 050	0		060	00 - 0		0900 - 1100						
SPEED (KTS)	GE13	GB15	GE25	OBS	GB13	GB15	GE25	OBS	GE13	GE15	GE2	obs	GE13	GE15	GB25	OBS	
CATEGORY A				0	.2			430	.1			744	1.3	.3		900	
CATEGORY B				0	.5			439	1.2	.5		764	5.5	3.4		911	
	l · • • • • • • •	•••••		• • • • • • • • •		•••••	•••••	••••	• • • • • • • • • •	• • • • •	• • • • •		• • • • • • • • • • • • • • • • • • • •				
THE (LST)	1200 - 1400					150	0 - 170	0		180	00 – :	9000		2100 - 2300			
SPEED (RTS)	GE13	GE15	GE25	OBS	GE13	GB15	GE25	OBS	GE13	GE15	GB2	obs	GE13	GE15	GE25	OBS	
CATEGORY A	3.1	1.1		900	3.7	2.2		804	2.0	.9		588	.8			133	
CATEGORY B	13.1	8.2	.4	916	11.9	8.1	1.2	817	3.4	3.0	•:	596	2.2	1.5		134	
				• • • • • • • • • • • • • • • • • • • •	• • • • • •			••••	• • • • • • • • •		• • • • •	• • • • • • • •				• • • • •	
***********	• • • • • • •	•••••	•••••	• • • • • • • •	• • • • • •	•••••	• • • • • • •	••••	• • • • • • • •	• • • • •	• • • • •	• • • • • • •	• • • • • • • • •	•••••	• • • • • •	• • • • •	
TIME (LST)					0600	- 2000	)			ALL HOURS							
SPEED KTS				GE13	GB15	GE25	OBS	;	d	Æ13 (	GB15	GE25	OBS				
CATEGORY A				2.1	.9		3936			1.9	.8		4499				
CATEGORY B				7.4	4.8	.4	4004			6.6	4.3	.3	4577				

MAGNETIC RUNWAY HEADING: 120-300

# PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 120-300

STATION NUMBER: 722786	STATION NAME: WILLIAMS AFB/CHANDLER AZ	PERIOD OF RECORD: APR 81 - MAR 91
	LST TO FFC: 4 7	MONTH: MAY

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

								·		
CATEGORY B	:	HIGHEST	WINDS	KRLOKLED	MITHIN	THE	HOUR	THOURLIES .	+	SPECIALS

		•••••														
TDE (LST)	}	000	0 - 02	00		030	0 - 05	00		060	0 - 086	00		090	0 - 11	00
SPEED (KTS)	GB13	GB15	GE25	OBS	GE13	GB15	GB25	OBS	GR13	GB15	GB25	OBS	GE13	GB15	GE25	OBS
CATEGORY A				0	.2	.2		422	.3	.1		732	.6	.1		909
CATEGORY B				0	.5	.5		423	.8	.3		733	3.4	2.2	.2	911
• • • • • • • • • • • • • • • • • • • •	 				• • • • • • • • •											
TIME (LST)		120	0 - 14	00		150	0 - 17	00		180	0 - 200	00		210	0 - 23	00
TIME (LST) SPEED (KTS)	GE13	120 GB15	0 - 14 GE25	00 OBS	GE13	150 GE15	00 - 17 GE25	00 08S	GB13	180 GE15	0 - 200 GE25	obs	GE13	210 GR15	0 - 23 GB25	OBS
	GE13												GE13			
SPEED (KTS)	ŀ	GE15		OBS	3.3	GB15	GE25	OBS		GE15		OBS	GE13			OBS
SPEED (KTS) CATEGORY A	1.3	GE15	GE25	0BS 908	3.3	GE15	GE25	OBS 790	2.4	GE15	GE25	OBS 591	GE13			OBS

TIME (LST)		0600	- 2000			ALL	HOURS	
SPEED KTS	GE13	GB15	GB25	OBS	GE13	GE15	GE25	OBS
CATEGORY A	1.5	.8		3930	1.3	.7		4500
CATEGORY B	7.7	5.3	.5	3966	6.7	4.7	.4	4538

CATEGORY B

#### PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS

FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 120-300

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JUN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

•••••	•••••	• • • • •	• • • • • •	• • • • • • • • • •	• • • • • •	• • • • • •	•••••	••••	• • • • • • • • •	• • • • •	• • • • •		• • • • • • • • • • • • • • • • • • • •		• • • • • •	• • • • •
TIME (LST)		000	0 - 020	00		030	0 - 050	00		06	00 - 0	0080		090	00 - 110	00
SPEED (RTS)	GR13	GE15	GB25	OBS	GB13	GB15	GB25	OBS	GE13	GE15	GE2	obs	GE13	GE15	GE25	OBS
CATEGORY A				0	.5	.5		435	.3	.1		737	.2	.1		900
CATEGORY B				0	.9	.5		439	.3	.3		743	2.2	1.2		906
· I		•••••	•••••	• • • • • • • • •	• • • • •	• • • • •	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	••••	••••	• • • • • • •				• • • • •
TIME (LST)		120	0 - 140	00		150	0 - 170	00		18	00 - 3	2000		210	00 - 230	00
SPEED (KTS)	GE13	GB15	GB25	OBS	GE13	GE15	GE25	OBS	GE13	GE15	GE2	obs	GE13	GE15	GE25	OBS
CATEGORY A	.7	.3		900	1.1	.6		798	3.2	1.6	-:	2 627				169
CATEGORY B	6.8	4.0		900	7.8	5.8	.1	800	6.4	4.7	•	8 644	1.1	1.1		175
•••••	• • • • • • •	• • • • • •	• • • • • •	• • • • • • • • •	• • • • • •	•••••		• • • • •						• • • • • •		••••
TIME (LST)	1	•••••	•••••	•	0600	- 2000					ALL	HOURS			•	• • • • •
SPEED KTS				GR13	GB15		OBS	•			GB15	GE25	OBS			
									`							
CATEGORY A				1.0	.5	.0	3962	2		.9	.5	.0	4566			

4.7 3.1 .2 3993

4.2 2.8 .1 4607

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS

FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91
LST TO UTC: + 7 MONTH: JUL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	<b>!</b>	000	0 - 02	00		030	0 - 05	00		060	0 - 080	00		090	0 - 11	00
SPEED (KTS)	GB13	GB15	GE25	OBS	GE13	GE15	GE25	OBS	GE13	GE15	GE25	OBS	GE13	GE15	GE25	OBS
CATEGORY A				0				426	.1	.1		728				906
CATEGORY B				0	.5	.2		436	.5	.4		738	.2	.1		912
	• • • • • • • •	•••••	•••••	• • • • • • • • •		•••••		•••••	• • • • • • •	•••••		• • • • • •		· · · · · ·	• • • • •	• • • • •
TIME (LST)	1200 - 1400						0 - 17	00		180	0 - 200	00		210	0 ~ 23	00
SPEED (KTS)	GB1 -	GB15	GB25	OBS	GE13	GB15	GE25	OBS	GE13	GE15	GE25	OBS	GE13	GE15	GE25	OBS
CATEGORY A	.1	.1		908	1.4	.7		814	3.4	2.6	.2	651	4.3	3.7	.6	164
CATEGORY B	2.6	1.5	.1	930	6.1	4.5	1.3	850	7.4	6.0	2.6	719	6.0	6.0	1.6	184
TIME (LST)					0600	- 2000	)			2	LL H	OURS				
SPEED KTS				GB13	GR15	GE25	ОВ	5	G	E13 G	1815 GI	<b>325</b>	OBS			

TIME (LST)		0600	- 2000			ALL	Hours	
SPEED KIS	GB13	GB15	GE25	OBS	GE13	GB15	GE25	OBS
CATEGORY A	.9	.6	.0	4007	.9	.7	.0	4597
CATEGORY B	3.3	2.4	.7	4149	3.1	2.3	.7	4769

USAPETAC, ASHEVILLE NC

## OPERATING LOCATION 'A' PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS

FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7

MONTH: AUG

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

				EGORY B:							•		SPECIALS)			
TIME (LST)			0 - 02				ა – 050				0 - 08				00 - 11	
SPEED (KTS)	GE13	GE15	GE25	OBS	GE13	GE15	GE25	27 <b>.S</b>	GE13	GE15	GE25	OBS	GE13	GE15	GE25	OBS
CATEGORY A				0				460	.1			771	.2			930
CATEGORY B				0	.2			467	.3			790	.5	.2		939
•••••	! • • • • • • • •				•••••			•••••				- <b></b>	• • • • • • • • • • • • • • • • • • • •			• • • • •
TIME (LS")		120	0 - 14	00		150	0 - 170	0		180	0 - 20	00		210	00 - 23	00
SPRED (KTS)	GE13	GB15	GB25	OBS	GE13	GB15	GB25	OBS	GE13	GE15	GE25	OBS	GE13	GE15	GE25	OBS
CATEGORY A	.4	.2		930	1.7	.8	.2	839	2.6	2.1	.2	657	1.9	1.3		159
CATEGORY B	1.8	1.0	.1	957	4.9	4.1	1.2	894	8.2	6.7	1.5	735	4.4	2.8		180
••••••	l • • • • • • • •			• • • • • • • • • • • • • • • • • • • •												
mTMT /10m)		•••••			0600	- 2000		•••••	•••••			·····	•••••	•••••	• • • • • •	••••
TIME (LST)					0000	- 2000	•			F	LL F	OURS				
SPEED KTS				GE13	GE15	GE25	OBS		G	E13 0	Æ15 G	E25	OBS			
CATEGORY A				.9	.6	.1	4127			.9	.5	.1	4746			
CATEGORY B				3.0	2.3	.5	4315			2.8	2.1	.5	4962			

#### PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS FROM BOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 120-300

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: SEP

#### CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

#### CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)		000	0 - 020	00		030	0 - 05	00		060	0 - 080	00		090	0 - 110	00
SPEED (KTS)	GB13	GB15	GE25	OBS	GE13	GE15	GE25	OBS	GE13	GE15	GE25	OBS	GE13	GE15	GE25	OBS
CATEGORY A				0	.2	.2		420	.1			716	.9	.6		879
CATEGORY B				0	.2	.2		423	.5	.3		728	2.7	1.4		887
***********		•••••		•••••		•••••		• • • • • •		•••••			•••••	•••••		••••
TIME (LST)		120	0 - 140	00		150	0 - 17	00		180	0 - 200	00		210	0 - 230	00
TIME (LST) SPEED (KTS)	GE13	120 GB15	0 - 140 GE25	oo obs	GE13	150 GB15	0 - 17 GB25	OO OBS	GE13	180 GR15	0 - 200 GE25	OBS	GE13	210 GE15	0 - 230 GE25	OBS
	GB13				GB13				GE13				GE13			
SPEED (KTS)		GB15		OBS	1.9	GB15		OBS		GB15		OBS				OBS
SPEED (KTS)	15	GB15		OBS 879	1.9	GR15	GE25	OBS 783	1.2	GE15	GE25	OBS 590		GE15		OBS

TIME (LST) 0600 - 2000 ALL HOURS SPEED KTS GE13 GE15 GE25 OBS GE13 GE15 GE25 OBS CATEGORY A .5 3847 1.0 .5 4410 CATEGORY B 3916 3.7 2.4 4.1 2.7 .1 .1 4486

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS

FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: OCT

#### CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

# CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS [ME (LST) | 0000 - 0200 0300 - 0500 0600 - 0800 0900 - 1100

TIME (LST)		000	0 - 02	00		030	0 - 05	00		060	0 - 080	00		090	0 - 110	00
SPEED (KTS)	GB13	GB15	GB25	OBS	GR13	GB15	GE25	OBS	GE13	GE15	GE25	OBS	GE13	GE15	GE25	OBS
CATEGORY A				0				426				743	1.2	.6		909
CATEGORY B				0				433				759	2.6	1.8		925
•••••	· · · · · · · · ·	•••••		•••••								• • • • •	• • • • • • • • • •	• • • • •	•••••	• • • • •
TIME (LST)		120	0 - 14	00		150	0 - 17	00		180	0 - 200	00		210	0 - 23	00
SPEED (KTS)	GE13	GE15	GE25	OBS	GE13	GE15	GB25	OBS	GE13	GE15	GE25	OBS	GE13	GE15	GE25	OBS
CATEGORY A	1.2	.4		909	1.1	.7		810	.5	.2		566	1.2			83
CATEGORY B	5.7	4.3	.3	928	4.3	3.3	.6	838	1.6	1.2		576	1.2	1.2		84
************		•••••		•••••	• • • • • • • • •		· • • • • •	• • • • • •	•••••			• • • • •	• • • • • • • • • • • • • • • • • • • •	· · · · · ·		• • • • •
TIME (LST)		•••••	••••	•••••	0600	- 2000	· • • • • • • • • • • • • • • • • • • •	•••••	*******		LL B	ours	• • • • • • • •	•••••	•••••	••••

TIME (LST)		0600	- 2000			ALL	BOURS	
SPEED KTS	GE13	GB15	GE25	OBS	GE13	GE15	GE25	OBS
CATEGORY A	.9	.4		3937	.8	.4		4446
CATEGORY B	3.0	2.3	.2	4026	2.7	2.0	.2	4543

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS

FROM HOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: NOV

#### CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

#### CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)		000	00 - 02	00		030	0 - 05	00		060	0 - 08	00		090	0 - 11	00
SPEED (KTS)	GE13	GE15	GE25	OBS	GE13	GE15	GB25	OBS	GE13	GE15	GE25	OBS	GE13	GE15	GE25	OBS
CATEGORY A				0	.5	.3		391				688	1.1	.7		850
CATEGORY B				0	.5	.3	.3	395	.4	.3		703	2.1	2.0	.1	865
	· • • • • • •			••••	•••••			• • • • • •	• • • • • • • • •		•••••	• • • • • •		•••••		
TIME (LST)		120	00 - 14	00		150	00 - 17	00		180	00 – 20	00		210	0 - 23	00
SPEED (KTS)	GE13	GB15	GE25	OBS	GE13	GB15	GE25	OBS	GE13	GB15	GE25	OBS	GE13	GE15	GE25	OBS
CATEGORY A	1.3	.8		855	1.9	1.1		756	1.4	.8		507	2.3			44
CATEGORY B	3.8	2.4		868	3.8	2.7	.7	769	2.1	1.6	.2	513	4.5	2.3		44
	 			• • • • • •	• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •	••••		•••••				••••
•••••		•••••	· • • • • •	• • • • • •								• • • • • •	• • • • • • • • •			

TIME (LST)		0600	- 2000			ALL	HOURS	
SPEED KTS	GE13	GB15	GE25	OBS	GE13	GB15	GB25	OBS
CATEGORY A	1.1	.7		3656	1.1	.6		4091
CATEGORY B	2.5	1.9	.2	3718	2.4	1.7	.2	4157
Y								

## PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS

FROM BOURLY OBSERVATIONS

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: DEC

#### CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

#### CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

•••••	• • • • • • •	•••••	• • • • • •	• • • • • • • • •	• • • • • •	• • • • • •	• • • • • • • •		• • • • • • • •	• • • • •	••••	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • •		• • • • •		
TIME (LST)		000	0 - 026	00		030	0 - 050	00		0600 - 0800				0900 - 1100				
SPEED (KTS)	GB13	GE15	GE25	OBS	GE13	GE15	GE25	OBS	GE13	GE15	GE2	5 OBS	GE13	GB15	GB25	OBS		
CATEGORY A				0				326	.5	.2		658	.2	.2		864		
CATEGORY B				0	.6	.3		328	.9	.6	,	675	1.0	.7	.2	890		
	• • • • • • •	•••••	•••••	• • • • • • • • •	• • • • • •			••••			••••	• • • • • • • •	• • • • • • • • •			• • • • •		
TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000					2100 - 2300				
SPEED (RTS)	GE13	GB15	GB25	OBS	GE13	GE15	GE25	OBS	GE13	GB15	GE2	5 OBS	GE13	GB15	GE25	OBS		
CATEGORY A	.7	.6		865	.7	.7		745	.2	.2	!	405				42		
CATEGORY B	2.9	1.7		874	1.3	1.2		759	.5	.2	:	414				43		
			•••••	• • • • • • • • •	•••••	•••••	• • • • • •	•••••	• • • • • • • • •	• • • • • •					• • • • •			
TIME (LST)	. <b></b> I	•••••	•••••	• • • • • • • •	0600	- 2000	· • • • • • • • • • • • • • • • • • • •	• • • • •	••••••	•••••	ALL	BOURS			•••••			
								_										
SPEED KTS				GE13	GB15	GB25	OBS		'		GE15	GE25	OBS					
CATEGORY A				.5	.4		3537	7		.4	.4		3905					

	0600	- 2000			ALL	HOURS	
GB13	GE15	GE25	OBS	GE13	GE15	GE25	OBS
.5	.4		3537	.4	.4		3905
1.4	1.0	.1	3612	1.4	.9	.1	3983
	.5	GB13 GB15	.5 .4	GE13 GE15 GE25 OBS	GE13 GE15 GE25 OBS GE13 .5 .4 3537 .4	GE13 GE15 GE25 OBS GE13 GE15	GR13 GR15 GR25 OBS GR13 GR15 GR25

CATEGORY B

#### PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 120-300

STATION NUMBER: 722786 STATION NAME: WILLIAMS AFB/CHANDLER AZ PERIOD OF RECORD: APR 81 - MAR 91

LST TO UTC: + 7 MONTH: ALL

#### CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

#### CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

••••••	• • • • • • • •	•••••		• • • • • • • • • • •	• • • • • •	•••••	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • •			• • • • • •	• • • • • •			
TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800					0900 - 1100				
SPEED (KTS)	GE13	GE15	GB25	OBS	GE13	GE15	GE25	OBS	GE13	GE15	GB25	OBS	GE13	GE15	GE25	OBS		
CATEGORY A				o	.2	.1		4972	.2	.1		8684	.7	.3		10697		
CATEGORY B				0	.6	.4	.0	5042	.6	.4	.0	8883	2.2	1.4	.1	10870		
•••••	l 	•••••	••••	• • • • • • • • • • • • • • • • • • • •	•••••		•••••		• • • • • • • • • • • • • • • • • • • •	• • • • • •			• • • • • • • • • • • • • • • • • • • •	• • • • •	· • • • • • •			
TIME (LST)	1200 - 1400				150	0 - 17	00		180	00 - 20		2100 - 2300						
SPEED (KTS)	GE13	GB15	GB25	OBS	GE13	GB15	GE25	OBS	GE13	GE15	GE25	OBS	GE13	GB15	GB25	OBS		
CATEGORY A	1.2	.6	.0	10707	1.8	1.0	.0	9505	1.7	1.0	.0	6834	1.1	.6	.1	1336		
CATEGORY B	5.7	3.8	.3	10909	6.5	4.7	.6	9802	4.0	3.1	.7	7088	2.6	2.0	.2	1395		
•••••	l • • • • • • • •	•••••	••••	• • • • • • • • • • • • • • • • • • • •	•••••	•••••	• • • • •	•••••	• • • • • • • • •					• • • • • •	· • • • • • •	· • • • •		
		•••••	••••	• • • • • • • • • •			•••••	*****	• • • • • • • •			· • • • • •	• • • • • • • • •	• • • • • •	· • • • • • •	· • • • • •		
TIME (LST)					0600	- 2000	)			,	ATT I	IOURS						
SPEED KTS				GE13	GE15	GB25	OE	s	•	GE13 (	BE15 (	E25	OBS					
CATEGORY A				1.1	.6	.0	4642	:7		1.0	.5	.0	52735					

3.9 2.7 .3 47552 3.5 2.5 .3 53989

РРРРРРРР ААААА		AAA	RRRR	RRRR		HH	HH	
PPPPP	PPPP	λλλλ	AAAA	RRRR	RRRRR	104000000000	HL	HH
PP	PP	λA	λλ	RR	RR	TT	HH	HH
PP	PP	λλ	λλ	RR	RR	TT	HH	88
PPPPP	PPPP	λλ	λλ	RRRR	RRRRR	TT	нинин	нннн
PPPPP	PPP	AAAAA	ለጸጸጸጸ	RRRR	RRRR	TT	нинин	HHHH
PP		AAAAA	AAAAA	RR	RR	TT	HA	HH
PP		λλ	λλ	RR	RR	TT	HH	HH
PP		λA	λλ	RR	RR	TT	HH	HH
PP		λλ	λλ	RR	RR	TT	HH	HH

#### PART H

#### DEGREE DAY SUMMARIES

#### DEGREE DAYS.

CREATED FROM BOURLY OBSERVATIONS (MAX+MIN/2 WHEN AVAILABLE), THESE TABLES GIVE THE THE NUMBER OF DEGREE DAYS FOR EACH MONTH IN EACH YEAR OF THE AVAILABLE PERIOD OF RECORD.

INCLUDED BENEATH EACH SUMMARY ARE STATISTICS BASED ON A 30-YEAR (1951-1980) POR (IF AVAILABLE). THE 30-YEAR POR PROVIDES AWS USERS WITH A SUMMARY CONSISTENT WITH OTHER STANDARD CLIMATIC PUBLICATIONS, NOTABLY THOSE OF THE NATIONAL CLIMATIC DATA CENTER (NCDC). NOTE THAT THE 30-YEAR POR WILL CHANGE TO 1961-1990 AS SOON AS DATA POR DECEMBER 1990 HAS BEEN PROCESSED.

MONTHS WITH NO AVAILABLE DATA AND MONTHS WITH A VALUE OF ZERO APPEAR AS BLANKS IN THESE TABLES. ASTERISKS (\*\*\*\*) DENOTE AN INCOMPLETE MONTH WITH A DAY (OR DAYS) THAT CANNOT BE CALCULATED (FILLED IN) AUTOMATICALLY.

#### HEATING DEGREE DAYS.

ONE "HEATING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE MEAN TEMPERATURE FALLS BELOW A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES\* PAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE ON A GIVEN DAY IS 57 DEGREES, THAT DAY IS SAID TO HAVE 8 HEATING DEGREE DAYS.

#### COOLING DEGREE DAYS.

ONE "COOLING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE TEMPERATURE RISES ABOVE A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES\* PAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE FOR A GIVEN DAY IS 73 DEGREES, THAT DAY IS SAID TO HAVE 8 COOLING DEGREE DAYS.

\*65 DEGREES FAHRENHEIT HAS BEEN SELECTED AS THE NATIONWIDE STANDARD
"BASE TEMPERATURE" AT WHICH (AT LEAST THEORETICALLY) NO HEATING OR
COOLING IS REQUIRED. IF ANOTHER BASE TEMPERATURE IS USED IN THESE
TABLES, IT WAS SPECIALLY REQUESTED BY THE STATION, AND IS NOTED.

NOTE 1. THESE SUMMARIES ARE NOT AVAILABLE FOR PART TIME PERIODS.

# HEATING DEGREE DAYS FROM BOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION N	TUMBER:	722786		IOM NAME	: WILLIAM + 7	S AFB/CEL	andler a	Z		PERIO	OF R	ECORD: JA	UN 43	- MAR	1 91
YEARS		JAN	PEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		NN

.....

MEAN

1

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SD

\*\*\*\*SPL 30YR SUMMATION (1951 -1980)\*\*\*\*

MBAN

SD

# COOLING DEGREE DAYS FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 75

STATION N			LST	TION NAM	+ 7								AN 43 -	
YEARS	ı	JAN	FRB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN

.....

MEAN

SD

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\*\*\*\*SPL 30YR SUMMATION (1951 -1980)\*\*\*\*

ŒAN

8D

AWS

STATION NAME: WILLIAMS AFB AZ

111 39 W LATITUDE/LONGITUDE: 33 19 N

CLIMATIC BRIEF

BOURLY OBS POR: APR 81 - MAR 91 SUMMARY OF DAY POR: MAR 42-MAR 91

HOURS SUMMARIZED: 0400 - 2100

FIELD ELEV: 1383 FT STATION MSC: 722786

CALL SIGN: KIWA

SUPERSEDES: DEC 87

DEC 91 LST TO	UTC: +07														ļ
нопти	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANN	YOR	İ
EXTRM MAX TEMP (F)	1 84	93	93	101	110	120	116	114	113	103	92	84	120	l 50	i
HEAN MAX TEMP (F)	64	68	72	81	90	100	102	100	96	86	73	65	83	50	
MEAN TEMP (F)	52	56	60	68	77	86	91	89	84	73	60	53	71	50	1
MEAN MIN TEMP (F)	39	43	47	55	63	72	80	78	72	60	47	40	58	50	l
EXTRM MIN TEMP (F)	17	24	24	34	37	53	64	59	50	34	22	21	17	50	
D/W TEMP GE 100 (F)	0	0	0		3	16	22	17	9	1	0	0	68	50	1
D/W TEMP GE 90 (F)	0		1	6	19	28	30	30	26	11	1	0	152	50	
D/W TEMP LT 40 (F)	16	9	4	1		0	0	0	0	1	5	15	51	50	-
D/W TEMP LT 33 (F)	5	2	1	0	0	0	0	0	0	0	1	4	13	50	!
HEATING DEGREE DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	49	1
@@COOLING DEGREE DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	49	
MEAN DEWPOINT TEMP (F)	J 33	J 33	l 33 l	34	36	42	57	59	53	45	35	34	41	10	i
MEAN WET BULB TEMP (F)	44	46	48	53	57	62	70	70	65	58	49	45	56	10	Ĺ
99.95% WCPA (FT)	1600	1650	1700	1700	1700	1700	1650	1650	1650	1650	1600	1650	1750	10	
MEAN REL HUM 07 LST(%)	l 66.7	60.0	54.8	38.9	31.3	26.9	45.1	52.5	51.1	52.7	54.3	64.2	49.6	1 10	i
MEAN REL HUM 13 LST(%)					18.3								30.1	10	
MAX 24HR PRECIP (IN)	1.14	1.88	1.28	1.18	.65	.53	1.75	2.64	1.76	2.24	1.39	2.36	2.64	49	i
MAX PRECIP (IN)	3.01	3.16	3.52	1.89	.72	.67	2.87	5.05	3.73	3.78	3.26	4.34	17.59	49	I
MEAN PRECIP (IN)	.82		.91	.36	.11	.09	.74	1.21	.92	.67	.60	.73	7.56	ſ	l
MIN PRECIP (IN)	.00		.00	.00	.00	.00	.03	•	.00	.00	.00	.00	2.78	49	l
D/W PRECIP GE .01 (IN) D/W PRECIP GT .50 (IN)	1 4	1	1	2 1	1	1	5	5 1	3 1	3 1	3 1	4	39 10	49 49	
L MAN SARD ONDY ATEL		1 o			0 1		o	0 1	0	0	0		.2	l 43	i
MAX 24HR SNFL (IN) MAX SNFL (IN)	0	0	.2	ő	ő	ŏ	Ö	0	0	0	0	ï	.2	43	١
MEAN SHEL (IN)	0	ŏ	0	ŏ	ŏ	ő	ŏ	ŏ	ő	ő	ő		0	43	l
D/W SMPL GB .1 (IN)	0	o		0	ŏ	ō	ō	o	0	o	0	ő		43	
D/W SMFL GR 1.5 (IM)	0	0	0	0	0	0	0	0	0	0	0	0	0	43	
MAX DLY SNO DEPTH (IN)	0	<b> </b> 0	0	0	0	0	0	0	Э	0	0	0	0	43	İ
PRVLNG WND DIR (DEG)	\$11-13	\$11-13	11-13	11-13	11-13	26-28	26-28	11-13	11-13	\$11-13	\$08-10	\$08-10	\$11-13	10	ĺ
MEAN WND SPD (KTS)	3	4	4	5	5	5	5	5	5	3	3	3	4	10	l
MAX WND SPD (KTS)	44	46	46	43	59	74	70	71	64	46	50	51	74	45	
SKY COVER GT 5/10 (%)	35.9	42.5	37.7	30.9	21.7	16.1	32.3	29.8	23.4	25.6	27.8	36.0	29.8	10	i
D/W THUNDERSTORMS	1	1	1	1	1	1	6	5	3	1	1	1	23	49	ļ
D/W FOG (VSBY LT 7 MI)	2	1 1	1	1	0	0		1	1	1	1	1	10	49	
		• • • • • • •			• • • • • • •										:

LEGEND: ANN - ANNUAL

D/W - MEAN NUMBER OF DAYS WITH

& - BASED ON LESS THAN FULL MONTHS

\*\* = INSTANTANEOUS PEAK WINDS

\* = DATA NOT AVAILABLE

POR/YOR = PERIOD/YEARS OF RECORD

WCPA - WORST CASE MAXIMUM PRESSURE ALTITUDE

# = LESS THAN 0.5 DAYS OR TRACE AS APPLICABLE

\$ - PERCENTAGE OF CALM WINDS GREATER THAN OR EQUAL TO MEAN WIND DIRECTION

PERCENT OCCURRENCE FREQUENCY OF CEILING AND VISIBILITY															
ж	HINC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	oct	NOA	DEC	ANN	YOR
1	LST	i	i			i	i		i		i	1	;		í i
	00 - 02		*	*			*	*	*	*	*	*	*	*	10
	03 - 05	2.2	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.8	.5	10
CIG	06 - 08	3.2	1.6	.4	.0	.0	.0	.1	.1	.3	.3	.6	1.8	.7	10
LT 3000 FT	09 - 11	3.0	1.4	.8	.2	.0	.0	.0	.3	.2	.0	.4	3.1	.8	10
AMD/OR	12 - 14	1.9	8.	1.3	.0	.0	.0	.1	.3	.2	.3	.4	2.0	.6	10
VSBY	15 - 17	1.3	.1	.6	.1	.3	.0	.4	.6	.0	.7	-4	1.2	.5	10
LT 3 MI	18 - 20	.6	.2	.2	.2	.2	.5	1.1	1.1	.0	.0	.4	.0	.4	10
	21 - 23	.0	.0	.0	.0	.0	.0	.6	1.3	.0	.0	2.3	.0	.3	10
1	ALL	2.1	.9	.6	.1	.1	.1	.3	.4	.1	.2	-4	1.8	.6	10
}	00 - 02			*	*	*	/ *	*		*	*	· *	*	*	10
	03 - 05	1.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.2	10
CIG	06 - 08	2.5	.3	-1	.0	.0	.0	.1	.1	.3	.3	.1	1.1	.4	10
LT 1500 FT	09 - 11	1.9	.4	.2	.1	.0	.0	.0	.3	.2	.0	.2	1.9	.4	10
AND/OR	12 - 14	1.0	.1	.0	.0	.0	.0	.1	.2	.2	.3	.0	.8	.2	10
VSBY	15 - 17	.8	.1	-1	.1	.3	.0	.4	.6	.0	.6	.4	.8	.3	10
LT 3 MI	18 - 20	.2	.2	.0	.2	.2	.5	1.1	1.1	.0	.0	.2	.0	.3	10
	21 - 23	.0	.0	.0	.0	.0	.0	.6	1.3	.0	.0	.0	.0	.2	10
	ALL	1.3	.2	.1	-1	.1	.1	.3	.4	-1	.2	.2	1.0	.3	10
	00 - 02	*	*	*	*	*	*	*		*	*	*	<b> </b> *	*	10
1	03 - 05	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	10
CIG	06 - 08	1.9	.1	.0	.0	.0	.0	.0	.1	.3	.1	.1	.5	.3	10
LT 1000 FT	09 - 11	1.2	.4	.1	.0	.0	.0	.0	.2	.2	.0	.1	1.2	.3	10
AND/OR	12 - 14	.8	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0	.6	-1	10
VSBY	15 - 17	.4	.1	٠0	.0	.1	.0	.1	.6	.0	.0	.1	.7	.2	10
LT 2 MI	18 - 20	.2	.0	.0	.0	.2	.5	.8	.9	0.	.0	.0	.0	.2	10
Į	21 - 23 ALL	.0 1.0	.0	.0	.0	.0 .0	.0	.6 .2	1.3	.0	.0	.0	.0	.2	10
1	) wrp	1 1.0					.1		,	.1			• <b>0</b>		10 1
	00 - 02	*	*	*	*		•	*		*	*	*	*	*	10
i	03 - 05	1.0	.0	٠0 ا	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	10
CIG	06 - 08	.6	.0	.0	.0	.0	.0	.0	.0	.3	.0	.1	.2	.1	10
LT 200 FT	09 - 11	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	10
AMD/OR	12 - 14	.0	.0	.0	.0	.0	.0	.0	.0	0.0	.0	.0	.0	.0	10
VSBY	15 - 17	.0	.0	.0	.0	.1	.0	.1	.2	.0	.0	.0	.0	.0	10
LT 1/2 MI	18 - 20	.0	.0	.0	.0	.0	.0	.3	.2	0	.0	.0	.0	.0	10
	21 - 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
I	ALL	.3	0.0	-0	.0	0.	0.0	.1	.1	.0	.0	0.	.1	.1	10

BURRICAMES/TROPICAL STORMS OBSERVED : NONE

REMARKS : 00 COOLING DEGREE DAYS CALCULATED USING 75 DEGREES FAHRENHEIT AS BASE TEMPERATURE.

## **DISTRIBUTION**

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